

Nontechnical Descriptions
Humacao Area, Puerto Rico Eastern Part

AcC - Aceitunas Silty Clay Loam, 5 To 12 Percent Slopes

THE ACEITUNAS SERIES CONSISTS OF VERY DEEP, WELL DRAINED SOILS ON COASTAL PLAINS. THEY FORMED IN FINE TEXTURED SEDIMENTS. TYPICALLY THESE SOILS HAVE A DARK REDDISH BROWN CLAY SURFACE LAYER 7 INCHES THICK. THE SUBSOIL FROM 7 TO 36 INCHES IS YELLOWISH RED CLAY AND FROM 36 TO 60 INCHES IS RED CLAY.

Aceitunas limo arcilloso lomico, 5-12 por ciento de inclinacion. Suelos profundos, bien drenados, de muy fuerte a extremadamente acido, textura moderadamente fina y fina, permeabilidad moderada, capacidad de retencion de agua moderada, potencial de expansion moderada y fertilidad mediana. La escorrentia es moderada. Suelos inclinados y susceptibles a erosion

Ad - Aguadilla Loamy Sand

THE AGUADILLA SERIES CONSISTS OF VERY DEEP, EXCESSIVELY DRAINED SOILS ON COASTAL PLAINS. THEY FORMED IN SANDY SEDIMENTS. TYPICALLY THESE SOILS HAVE A DARK BROWN LOAMY SAND SURFACE LAYER 8 INCHES THICK. THE UNDERLYING MATERIAL FROM 8 TO 20 INCHES IS BROWN SAND, FROM 20 TO 40 INCHES IS DARK YELLOWISH BROWN SAND, AND FROM 40 TO 58 INCHES IS GRAYISH BROWN SAND. SLOPES RANGE FROM 0 TO 2 PERCENT.

Aguadilla lomico arenoso. Suelo profundo, excesivamente drenado, textura gruesa, permeabilidad rapida, capacidad de retencion de agua baja y potencial expansivo bajo. Suelo casi llano, sin erosion y de fertilidad baja.

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Ag - Aguadilla Sandy Loam, Moderately Wet

THE MODERATELY WET PHASE OF THE AGUADILLA SERIES CONSISTS OF VERY DEEP, EXCESSIVELY DRAINED SOILS ON COASTAL PLAINS. THEY FORMED IN SANDY SEDIMENTS. TYPICALLY THESE SOILS HAVE A DARK BROWN SANDY LOAM SURFACE LAYER 8 INCHES THICK. THE UNDERLYING MATERIAL IS BROWN SAND FROM 8 TO 20 INCHES, DARK YELLOWISH BROWN SAND FROM 20 TO 40 INCHES, AND GRAYISH BROWN SAND TO A DEPTH OF 60 INCHES. SLOPES ARE 0 TO 2 PERCENT.

Aguadilla arenoso lomico, moderadamente humedo. Suelo profundo, excesivamente drenado, textura gruesa, permeabilidad rapida, capacidad de retencion de agua baja y potencial expansivo bajo. El nivel freatico es alto, la fertilidad baja, casi llano y sin erosion.

AmB - Amelia Gravelly Clay Loam, 2 To 5 Percent Slopes

THE AMELIA SERIES CONSIST OF VERY DEEP, WELL DRAINED SOILS ON FOOTSLOPES AND ALLUVIAL FANS. THEY FORMED IN GRAVELLY SEDIMENTS DERIVED FROM VOLCANIC ROCKS. TYPICALLY THESE SOILS HAVE A DARK BROWN, CLAY LOAM SURFACE LAYER 9 INCHES THICK. THE UPPER SUBSOIL IS DARK REDDISH BROWN, GRAVELLY CLAY. LOWER SUBSOIL IS YELLOWISH RED VERY GRAVELLY AND EXTREMELY GRAVELLY CLAY.

Amelia gravoso arcilloso lomico, 2-5 por ciento de inclinacion. Suelos profundos, bien drenados, medianamente acidos, textura gravosa, permeabilidad moderada, ligeramente inclinados y de baja fertilidad. La capacidad de retencion de agua es baja y el potencial de expansion moderado. Son dificiles de trabajar.

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Humacao Area, Puerto Rico Eastern Part

AmC2 - Amelia Gravelly Clay Loam, 5 To 12 Percent Slopes, Eroded

THE AMELIA SERIES CONSIST OF VERY DEEP, WELL DRAINED SOILS ON FOOTSLOPES AND ALLUVIAL FANS. THEY FORMED IN GRAVELLY SEDIMENTS DERIVED FROM VOLCANIC ROCKS. TYPICALLY THESE SOILS HAVE A DARK BROWN, CLAY LOAM SURFACE LAYER 9 INCHES THICK. THE UPPER SUBSOIL IS DARK REDDISH BROWN, GRAVELLY CLAY. LOWER SUBSOIL IS YELLOWISH RED VERY GRAVELLY AND EXTREMELY GRAVELLY CLAY. Amelia gravoso arcilloso lomico, 5-12 por ciento de inclinacion, erodado. Suelos profundos, bien drenados, medianamente acidos, textura gravosa, permeabilidad moderada, ligeramente inclinado y de baja fertilidad. Son dificiles de trabajar.

An - Arenales Sandy Loam

THE ARENALES SERIES CONSISTS OF SHALLOW TO SAND AND GRAVEL; EXCESSIVELY DRAINED SOILS ON FLOODPLAINS. THEY FORMED IN STRATIFIED COARSE SEDIMENTS DERIVED FROM VOLCANIC AND LIMESTONE ROCKS. TYPICALLY THESE SOILS HAVE A VERY DARK GRAYISH BROWN, SANDY LOAM SURFACE LAYER 8 INCHES THICK. THE UNDERLYING LAYER IS VERY DARK GRAYISH BROWN AND DARK GRAYISH BROWN, LOAMY SAND. BELOW TO 50 INCHES, IS STRATIFIED COARSE SAND, SAND AND GRAVEL. SLOPES RANGE FROM 0 TO 2 PERCENT.

Arenales arenoso lomico. Suelos profundos, drenados excesivamente, textura gruesa, permeabilidad rapida, capacidad de retencion de agua baja y fertilidad baja. La escorrentia es lenta. La reaccion es de suave a moderadamente alcalino. Se encuentra una mezcla de arena gruesa y grava a una profundidad de 42 pulgadas. Son faciles de trabajar. Llanos, casi llanos y sin erosion.

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Ar - Arenales Sandy Loam, Gravelly Substratum

THE ARENALES SERIES CONSISTS OF SHALLOW TO SAND AND GRAVEL; EXCESSIVELY DRAINED SOILS ON FLOODPLAINS. THEY FORMED IN STRATIFIED COARSE SEDIMENTS DERIVED FROM VOLCANIC AND LIMESTONE ROCKS. TYPICALLY THESE SOILS HAVE A VERY DARK GRAYISH BROWN, SANDY LOAM SURFACE LAYER 8 INCHES THICK. THE UNDERLYING LAYER IS VERY DARK GRAYISH BROWN AND DARK GRAYISH BROWN, LOAMY SAND. BELOW TO 50 INCHES, IS STRATIFIED COARSE SAND, SAND AND GRAVEL. SLOPES RANGE FROM 0 TO 2 PERCENT.

Arenales arenoso lomico, sustrato gravoso. Suelos profundos, de suave a moderadamente alcalinos, textura gruesa, permeabilidad rapida, capacidad de retencion de agua baja y fertilidad baja. La escorrentia es lenta. La grava se encuentra a una profundidad de 20 a 36 pulgadas. Son faciles de trabajar. Llanos, casi llanos y sin erosión.

Ba - Bajura Silty Clay, Saline

THE SALINE PHASE OF THE BAJURA SERIES CONSISTS OF VERY DEEP, POORLY DRAINED SOILS ON FLOOD PLAINS. THEY FORMED IN SEDIMENTS OF MIXED ORIGIN. TYPICALLY THESE SOILS HAVE A VERY DARK GRAYISH BROWN SILTY CLAY SURFACE LAYER 5 INCHES THICK. THE SUBSOIL IS BLACK TO YELLOWISH BROWN CLAY TO 60 INCHES.

Bajura limo arcilloso, salinos. Suelos profundos, mal drenados, ligeramente acidos, textura fina, permeabilidad lenta, capacidad de retencion de agua alta, potencial de expansion de agua alta y fertilidad alta. La escorrentia es lenta y ocasionalmente afectados por la salinidad causada por la marea alta. Llanos, casi llanos y sin erosión. Es dificil de trabajar debido al mal drenaje. El potencial de expansion es alto y esta afectado por las sales.

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Bc - Bajura Clay, Frequently Flooded

THE BAJURA SERIES CONSISTS OF VERY DEEP, POORLY DRAINED SOILS ON FLOODPLAINS. THEY FORMED IN CLAYEY SEDIMENTS OF MIXED ORIGIN. TYPICALLY THESE SOILS HAVE A VERY DARK GRAYISH BROWN CLAY SURFACE LAYER 6 INCHES THICK. THE SUBSOIL FROM 6 TO 12 INCHES IS VERY DARK GRAYISH BROWN AND GRAY CLAY. THE SUBSTRATUM FROM 12 TO 54 INCHES IS DARK GRAY AND DARK GREENISH GRAY CLAY. SLOPES RANGE FROM 0 TO 2 PERCENT.

Bajura arcilloso, inundado frecuentemente. Suelos profundos, ligeramente acidos, textura fina, permeabilidad lenta, capacidad de retencion de agua alta, potencial de expansion alto y fertilidad alta. La escorrentia es lenta. Llanos, casi llanos y sin erosion.

CbD2 - Caguabo Clay Loam, 12 To 20 Percent Slopes, Eroded

THE CAGUABO SERIES CONSISTS OF SHALLOW WELL DRAINED SOILS ON UPLANDS. THEY FORMED IN MATERIAL WEATHERED FROM VOLCANIC ROCKS. TYPICALLY THESE SOILS HAVE A DARK GRAYISH BROWN CLAY LOAM SURFACE LAYER 4 INCHES THICK. THE SUBSOIL FROM 4 TO 10 INCHES IS BROWN VERY GRAVELLY CLAY LOAM. WEATHERED ROCK FRAGMENTS ARE AT 10 TO 16 INCHES. CONSOLIDATED VOLCANIC ROCK IS AT 16 INCHES.

Caguabo arcilloso lomico, 2-12 por ciento de inclinacion, erodido. Suelos poco profundos, bien drenados, textura moderadamente fina, de ligera a medianamente acido, permeabilidad moderada, capacidad de retencion de agua moderada, potencial de expansion moderado y fertilidad moderada. La escorrentia es de mediana a rapida. Estos suelos son susceptibles a erosion.

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CbF2 - Caguabo Clay Loam, 20 To 60 Percent Slopes, Eroded

THE CAGUABO SERIES CONSISTS OF SHALLOW WELL DRAINED SOILS ON UPLANDS. THEY FORMED IN MATERIAL WEATHERED FROM VOLCANIC ROCKS. TYPICALLY THESE SOILS HAVE A DARK GRAYISH BROWN CLAY LOAM SURFACE LAYER 4 INCHES THICK. THE SUBSOIL FROM 4 TO 10 INCHES IS BROWN VERY GRAVELLY CLAY LOAM. WEATHERED ROCK FRAGMENTS ARE AT 10 TO 16 INCHES. CONSOLIDATED VOLCANIC ROCK IS AT 16 INCHES.

Caguabo arcilloso lomico, 20-60 por ciento de inclinacion. Suelos poco profundos, bien drenados, textura moderadamente fina, de ligeramente a medianamente acido, permeabilidad moderada, capacidad de retencion de agua moderada, potencial de expansion moderado y fertilidad moderada. La escorrentia es rapida a muy rapida. Estos suelos son susceptibles a erosión.

CdB - Candelero Loam, 2 To 5 Percent Slopes

THE CANDELERO SERIES CONSISTS OF VERY DEEP, SOMEWHAT POORLY DRAINED SOILS ON TERRACES, ALLUVIAL FANS, AND FOOTSLOPES. THEY FORMED IN SEDIMENTS DERIVED FROM GRANITIC ROCKS. TYPICALLY THESE SOILS HAVE A DARK GRAYISH BROWN LOAM SURFACE LAYER 7 INCHES THICK. THE SANDY CLAY LOAM SUBSOIL FROM 7 TO 15 INCHES IS GRAY AND YELLOWISH BROWN, FROM 15 TO 24 INCHES IS GREENISH GRAY, AND FROM 34 TO 64 INCHES IS DARK YELLOWISH BROWN.

Candelero lomico, 2-5 por ciento de inclinacion. Suelos profundos, algo mal drenado, de ligeramente a extremadamente acidos, textura moderadamente fina, permeabilidad lenta, capacidad de retencion de agua moderada y potencial de expansion moderado. La escorrentia es mediana y estan sujetos a inundaciones ocasionales.

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CdC2 - Candelero Loam, 5 To 12 Percent Slopes, Eroded

THE CANDELERO SERIES CONSISTS OF VERY DEEP, SOMEWHAT POORLY DRAINED SOILS ON TERRACES, ALLUVIAL FANS, AND FOOTSLOPES. THEY FORMED IN SEDIMENTS DERIVED FROM GRANITIC ROCKS. TYPICALLY THESE SOILS HAVE A DARK GRAYISH BROWN LOAM SURFACE LAYER 7 INCHES THICK. THE SANDY CLAY LOAM SUBSOIL FROM 7 TO 15 INCHES IS GRAY AND YELLOWISH BROWN, FROM 15 TO 24 INCHES IS GREENISH GRAY, AND FROM 34 TO 64 INCHES IS DARK YELLOWISH BROWN.

Candelero lomico, 5-12 por ciento de inclinacion. Suelos profundos, algo mal drenados, de ligera a extremadamente acidos, textura moderadamente fina, permeabilidad lenta, capacidad de retencion de agua moderada y potencial de expansion moderado. Son inclinados y susceptibles a erosion. La escorrentia es mediana y estan sujetos a inundaciones ocasionales.

Ce - Cartagena Clay

THE CARTAGENA SERIES CONSISTS OF VERY DEEP, SOMEWHAT POORLY DRAINED SOILS ON ALLUVIAL FANS. THEY FORMED IN CLAYEY SEDIMENTS DERIVED FROM VOLCANIC ROCKS AND LIMESTONE. TYPICALLY THESE SOILS HAVE VERY DARK GRAYISH BROWN, CLAY SURFACE AND SUBSURFACE LAYERS 15 INCHES THICK. THE UPPER SUBSTRATUM IS VERY DARK GRAY CLAY. THE UNDERLYING LAYER IS BLACK CLAY. THE LOWER SUBSTRATUM TO 60 INCHES IS DARK GRAYISH BROWN AND BROWN CLAY. SLOPES RANGE FROM 0 TO 2 PERCENT.

Cartagena arcilloso. Suelos profundos, algo mal drenados, de suave a moderadamente alcalinos, textura fina, permeabilidad lenta, capacidad de retencion de agua alta y potencial de expansion alto. La escorrentia es lenta. Los suelos son dificiles de trabajar. Son llanos a casi llanos y sin erosion.

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Cf - Catano Loamy Sand

THE CATANO SERIES CONSISTS OF VERY DEEP, EXCESSIVELY DRAINED SOILS ALONG THE COAST. THEY FORMED IN CALCAREOUS SANDY SEDIMENTS CONSISTING OF SHELL FRAGMENTS AND VOLCANIC SUBROUNDED FRAGMENTS. TYPICALLY THESE SOILS HAVE A VERY DARK GRAYISH BROWN SAND SURFACE LAYER 4 INCHES THICK. THE UNDERLYING MATERIAL FROM 4 TO 10 INCHES IS DARK BROWN SAND, FROM 10 TO 50 INCHES IS BROWN SAND, AND FROM 50 TO 60 INCHES IS GRAYISH BROWN SAND.

Catano lomico arenoso. Suelos profundos, excesivamente drenados, moderadamente alcalinos, textura gruesa, permeabilidad rapida, capacidad de retencion de agua baja, potencial de expansion bajo y fertilidad baja. Suelos llanos o casi llanos y sin erosion.

CgC2 - Cayagua Sandy Loam, 5 To 12 Percent Slopes, Eroded

THE CAYAGUA SERIES CONSISTS OF VERY DEEP, POORLY DRAINED SOILS ON UPLANDS. THEY FORMED IN MATERIAL WEATHERED FROM VOLCANIC ROCKS. TYPICALLY THESE SOILS HAVE A DARK GRAYISH BROWN SANDY LOAM SURFACE LAYER 4 INCHES THICK. THE SUBSOIL FROM 4 TO 20 INCHES IS LIGHT BROWNISH GRAY CLAY AND FROM 20 TO 27 INCHES IS YELLOWISH RED SANDY LOAM AND LIGHT GRAY CLAY. THE SUBSTRATUM FROM 27 TO 60 INCHES IS YELLOWISH RED AND REDDISH YELLOW SANDY LOAM WITH SOME LIGHT GRAY CLAY.

Cayagua arenoso lomico, 5-12 por ciento de inclinacion, erodado. Suelos profundos, algo mal drenado, de ligera a muy fuertemente acidos, textura gruesa, permeabilidad lenta, inclinados, fertilidad mediana y escorrentia lenta.

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CgD2 - Cayagua Sandy Loam, 12 To 20 Percent Slopes, Eroded

THE CAYAGUA SERIES CONSISTS OF VERY DEEP, POORLY DRAINED SOILS ON UPLANDS. THEY FORMED IN MATERIAL WEATHERED FROM VOLCANIC ROCKS. TYPICALLY THESE SOILS HAVE A DARK GRAYISH BROWN SANDY LOAM SURFACE LAYER 4 INCHES THICK. THE SUBSOIL FROM 4 TO 20 INCHES IS LIGHT BROWNISH GRAY CLAY AND FROM 20 TO 27 INCHES IS YELLOWISH RED SANDY LOAM AND LIGHT GRAY CLAY. THE SUBSTRATUM FROM 27 TO 60 INCHES IS YELLOWISH RED AND REDDISH YELLOW SANDY LOAM WITH SOME LIGHT GRAY CLAY.

Cayagua arenoso lomico, 12-20 por ciento de inclinacion, erodado. Suelos profundos, algo mal drenado, de ligera a muy fuertemente acidos, textura gruesa, permeabilidad lenta, moderadamente riscosos, susceptibles a erosión, fertilidad mediana y escorrentia lenta.

ClB - Coamo Clay Loam, 2 To 5 Percent Slopes

THE COAMO SERIES CONSISTS OF VERY DEEP, WELL DRAINED, SOILS IN ALLUVIAL FANS AND TERRACES. THEY FORMED IN STRATIFIED GRAVELLY AND LOAMY SEDIMENTS DERIVED FROM VOLCANIC ROCKS. TYPICALLY, THESE SOILS HAVE VERY DARK BROWN, CLAY LOAM SURFACE AND SUBSURFACE LAYERS. UPPER SUBSOIL IS DARK BROWN, CLAY. LOWER SUBSOIL IS DARK BROWN, GRAVELLY CLAY. THE SUBSTRATUM TO A DEPTH OF 48 INCHES IS STRATIFIED GRAVEL AND GRAVELLY CLAY LOAM.

Coamo arcilloso lomico, 5-12 por ciento de inclinacion. Suelos moderadamente profundos, bien drenados, de ligeramente acidos a moderadamente alcalinos, textura gruesa, permeabilidad moderada, capacidad de retención de agua moderada y potencial expansivo moderado. La escorrentia es mediana y la fertilidad alta.

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C1C - Coamo Clay Loam, 5 To 12 Percent Slopes

THE COAMO SERIES CONSISTS OF VERY DEEP, WELL DRAINED, SOILS IN ALLUVIAL FANS AND TERRACES. THEY FORMED IN STRATIFIED GRAVELLY AND LOAMY SEDIMENTS DERIVED FROM VOLCANIC ROCKS. TYPICALLY, THESE SOILS HAVE VERY DARK BROWN, CLAY LOAM SURFACE AND SUBSURFACE LAYERS. UPPER SUBSOIL IS DARK BROWN, CLAY. LOWER SUBSOIL IS DARK BROWN, GRAVELLY CLAY. THE SUBSTRATUM TO A DEPTH OF 48 INCHES IS STRATIFIED GRAVEL AND GRAVELLY CLAY LOAM.

Coamo arcilloso lomico, 5-12 por ciento de inclinacion. Suelos moderadamente profundos, bien drenados, de ligeramente acidos a moderadamente alcalinos, textura gruesa, permeabilidad moderada, capacidad de retencion de agua moderada y potencial expansivo moderado. La escorrentia es mediana.

Cm - Coastal Beaches

BEACHES ARE SANDY SHORES WASHED AND REWASHED BY WAVES. THESE AREAS MAY BE COVERED WITH WATER DURING HIGH TIDES OR STORMS.

Arenas de Costas. Suelo profundo, excesivamente drenado, calizo, casi llanos que ocurren en franjas estrechas a lo largo de la costa.

Cn - Cobbly Alluvial Land

RIVERWASH IS A MIXTURE OF BOULDERS, COBBLES, GRAVEL, AND SAND THAT IS FREQUENTLY FLOODED.

Suelos guijarrosos aluviales. Se encuentran a lo largo de las margenes de los rios. Consiste de suelos aluviales no consolidados y alrededor de 70 por ciento del volumen en rocas que fluctuan entre 3 a 10 pulgadas de diametro.

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Co - Coloso Silty Clay Loam, Occasionally Flooded

THE COLOSO SERIES CONSISTS OF VERY DEEP, SOMEWHAT POORLY DRAINED SOILS ON FLOODPLAINS. THEY FORMED IN STRATIFIED ALLUVIAL SEDIMENTS. TYPICALLY THESE SOILS HAVE A BROWN SILTY CLAY LOAM SURFACE LAYER 7 INCHES THICK. THE UNDERLYING MATERIAL FROM 7 TO 13 INCHES IS BROWN SILTY CLAY LOAM, FROM 13 TO 33 INCHES IS DARK GRAY AND LIGHT GRAY SILTY CLAY LOAM, AND FROM 33 TO 60 INCHES IS DARK GRAY SILTY CLAY.

Coloso limo arcilloso lomico, inundado ocasionalmente. Suelos profundos, un poco mal drenado, ligeramente acido, llanos, textura fina con permeabilidad lenta y nivel freatico alto por temporadas. Estan sujetos a inundaciones ocasionalmente. La capacidad de retencion de agua es alta, la escorrentia es lenta y son fertiles. Tienen un potencial de expansion moderado.

Cr - Coloso Silty Clay

THE COLOSO SERIES CONSISTS OF VERY DEEP, SOMEWHAT POORLY DRAINED SOILS ON FLOODPLAINS. THEY FORMED IN STRATIFIED ALLUVIAL SEDIMENTS. TYPICALLY THESE SOILS HAVE A BROWN SILTY CLAY LOAM SURFACE LAYER 7 INCHES THICK. THE UNDERLYING MATERIAL FROM 7 TO 13 INCHES IS BROWN SILTY CLAY LOAM, FROM 13 TO 33 INCHES IS DARK GRAY AND LIGHT GRAY SILTY CLAY LOAM, AND FROM 33 TO 60 INCHES IS DARK GRAY SILTY CLAY.

Coloso limo arcilloso. Suelos profundos, un poco mal drenado, ligeramente acido, llanos, textura fina con permeabilidad lenta y nivel freatico alto por temporadas. Estan sujetos a inundaciones ocasionalmente. La capacidad de retencion de agua es alta, la escorrentia es lenta y son fertiles. Tienen un potencial de expansion moderado.

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Cs - Corcega Sandy Loam

THE CORCEGA SERIES CONSISTS OF VERY DEEP, SOMEWHAT POORLY DRAINED, SOILS IN FLOODPLAINS. THEY FORMED IN LOAMY SEDIMENTS OF MIXED ORIGIN OVER SANDS. TYPICALLY THESE SOILS HAVE DARK BROWN, SILTY CLAY LOAM SURFACE LAYER 8 INCHES THICK. THE UPPER SUBSOIL IS DARK BROWN, MOTTLED SILTY CLAY LOAM. THE LOWER SUBSOIL IS DARK GRAY, MOTTLED, SANDY CLAY LOAM. THE SUBSTRATUM TO A DEPTH OF 50 INCHES IS DARK GRAY SAND. SLOPES RANGE FROM 0 TO 2 PERCENT.

Corcega arenoso lomico. Suelos profundos, algo mal drenados, ligeramente acidos, textura moderadamente fina, permeabilidad moderada, capacidad de retencion de agua moderada, llanos y casi llanos. La fertilidad es alta y son faciles de trabajar. La escorrentia es lenta.

DaC - Daguao Silty Clay Loam, Deep Variant, 2 To 12 Percent Slopes

THE DAGUAO VARIANT CONSISTS OF DEEP, WELL DRAINED, SOILS ON FOOT SLOPES. THEY FORMED IN MATERIAL DERIVED FROM VOLCANIC ROCK. TYPICALLY THESE SOILS HAVE A DARK BROWN SILTY CLAY LOAM SURFACE LAYER 11 INCHES THICK. THE SUBSOIL IS DARK BROWN AND STRONG BROWN CLAY 24 INCHES THICK. THE SUBSTRATUM IS DARK YELLOWISH BROWN SILTY CLAY LOAM SAPROLITE TO 45 INCHES.

Daguao limo arcilloso lomico, profundidad variante, 2-12 por ciento de inclinacion. Suelos profundos, bien drenados, de mediana a fuertemente acido, textura moderadamente fina, permeabilidad moderadamente lenta, capacidad de retencion de agua alta, potencial de expansion moderado, ligeramente inclinados y fertilidad natural mediana.

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DcE2 - Dagua Clay, 20 To 40 Percent Slopes, Eroded

THE DAGUAO SERIES CONSISTS OF MODERATELY DEEP TO VOLCANIC ROCK, WELL DRAINED SOILS IN SIDESLOPES AND RIDGES, FORMED IN CLAYEY MATERIALS DERIVED FROM VOLCANIC ROCKS. TYPICALLY THESE SOILS HAVE VERY DARK GRAY CLAY SURFACE LAYERS 8 INCHES THICK. THE SUBSOIL IS DARK YELLOWISH BROWN, CLAY. SUBSTRATUM TO 34 INCHES IS YELLOWISH BROWN, YELLOWISH RED AND DARK GREENISH GRAY CLAY SAPROLITE. BELOW IS DARK GREEN CONSOLIDATED VOLCANIC ROCK.

Daguao arcilloso, 20-40 por ciento de inclinacion, erodado. Suelos moderadamente profundos, bien drenados, fuertemente acidos, textura moderadamente fina a fina, permeabilidad moderadamente lenta, capacidad de retencion de agua moderada, potencial de expansion moderado, riscosos y fertilidad natural mediana.

DeC2 - Descalabrado Clay Loam, 5 To 12 Percent Slopes, Eroded

THE DESCALABRADO SERIES CONSISTS OF SHALLOW, WELL DRAINED SOILS ON UPLANDS. THEY FORMED IN MATERIAL WEATHERED FROM VOLCANIC ROCK. TYPICALLY THESE SOILS HAVE A DARK BROWN CLAY LOAM SURFACE LAYER 5 INCHES THICK. THE SUBSOIL FROM 5 TO 12 INCHES IS DARK BROWN GRAVELLY CLAY. HARD VOLCANIC ROCK IS AT 12 INCHES.

Descalabrado arcilloso lomico, 5-12 por ciento de inclinacion, erodado. Suelos pocos profundos a la roca volcanica consolidada, bien drenados, neutrales, textura moderadamente fina, permeabilidad moderada, capacidad de retencion de agua moderada, inclinados, susceptibles a erosion, potencial de expansion moderado, fertilidad mediana y escorrentia mediana.

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DeE2 - Descalabrado Clay Loam, 20 To 40 Percent Slopes, Eroded

THE DESCALABRADO SERIES CONSISTS OF SHALLOW, WELL DRAINED SOILS ON UPLANDS. THEY FORMED IN MATERIAL WEATHERED FROM VOLCANIC ROCK. TYPICALLY THESE SOILS HAVE A DARK BROWN CLAY LOAM SURFACE LAYER 5 INCHES THICK. THE SUBSOIL FROM 5 TO 12 INCHES IS DARK BROWN GRAVELLY CLAY. HARD VOLCANIC ROCK IS AT 12 INCHES.

Descalabrado arcilloso lomico, 20-40 por ciento de inclinacion, erodado. Suelos pocos profundos a la roca volcanica consolidada, bien drenados, neutrales, textura moderadamente fina, permeabilidad moderada, capacidad de retencion de agua moderada, inclinados, susceptibles a erosion, potencial de expansion moderado, fertilidad mediana y escorrentia rapida.

DgF2 - Descalabrado And Guayama Soils, 20 To 60 Percent Slopes, Eroded

THE DESCALABRADO SERIES CONSISTS OF SHALLOW, WELL DRAINED SOILS ON UPLANDS. THEY FORMED IN MATERIAL WEATHERED FROM VOLCANIC ROCK. TYPICALLY THESE SOILS HAVE A DARK BROWN CLAY LOAM SURFACE LAYER 5 INCHES THICK. THE SUBSOIL FROM 5 TO 12 INCHES IS DARK BROWN GRAVELLY CLAY. HARD VOLCANIC ROCK IS AT 12 INCHES.

THE GUAYAMA SERIES CONSISTS OF SHALLOW, WELL DRAINED SOILS ON UPLANDS. THEY FORMED IN MATERIAL WEATHERED FROM VOLCANIC ROCKS. TYPICALLY THESE SOILS HAVE A DARK REDDISH BROWN CLAY LOAM SURFACE LAYER 5 INCHES THICK. THE SUBSOIL FROM 5 TO 12 INCHES IS REDDISH BROWN GRAVELLY CLAY. THE SUBSTRATUM FROM 12 TO 18 INCHES IS YELLOWISH RED GRAVELLY CLAY LOAM. VOLCANIC ROCK IS AT 18 INCHES.

Suelos Descalabrado y Guayama, 20-60 por ciento de inclinacion, erodado. Esta unidad cartografica consiste de suelos Descalabradados y Guayama. La proporcion de cada suelo varia de un area a otra, y algunas areas pueden estar enteramente en suelos Guayamas. Los suelos Guayamas no son tan inclinados como los suelos Descalabradados. Los suelos Guayama tienen cuarzo a traves de la superficie y el subsuelo.

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Nontechnical Descriptions
Humacao Area, Puerto Rico Eastern Part

DrF - Descalabrado-Rock Land Complex, 40 To 60 Percent Slopes

ROCK OUTCROP CONSISTS OF EXPOSURES OF BARE, HARD BEDROCK.
THE DESCALABRADO SERIES CONSISTS OF SHALLOW, WELL DRAINED SOILS ON UPLANDS. THEY FORMED IN MATERIAL WEATHERED FROM VOLCANIC ROCK. TYPICALLY THESE SOILS HAVE A DARK BROWN CLAY LOAM SURFACE LAYER 5 INCHES THICK. THE SUBSOIL FROM 5 TO 12 INCHES IS DARK BROWN GRAVELLY CLAY. HARD VOLCANIC ROCK IS AT 12 INCHES.

Complejo Descalabrado-Terreno Rocoso, 40-60 por ciento de inclinacion. Esta unidad cartografica consiste de suelos Descalabradados y terrenos rocosos. Los suelos Descalabradados comprenden un 80-85 por ciento de la unidad cartografica y el terreno rocoso comprende de 15-20 por ciento.

FaC - Fajardo Clay, 2 To 10 Percent Slopes

THE FAJARDO SERIES CONSISTS OF VERY DEEP, SOMEWHAT POORLY DRAINED SOILS IN ALLUVIAL FANS AND TERRACES OF COASTAL PLAINS. THEY FORMED IN CLAYEY MATERIAL OF MIXED ORIGIN. TYPICALLY THESE SOILS HAVE DARK GRAYISH BROWN, CLAY SURFACE LAYERS 9 INCHES THICK. THE UPPER SUBSOIL IS YELLOWISH BROWN CLAY. THE LOWER SUBSOIL TO 60 INCHES IS RED, LIGHT GRAY, GRAY, YELLOWISH BROWN, AND LIGHT BLUISH GRAY CLAY.

Fajardo arcilloso, 2-10 por ciento de inclinacion. Suelos profundos, algo mal drenados, ligeramente a medianamente acidos, textura fina, permeabilidad lenta, capacidad de retencion de agua alta, potencial expansivo alto y fertilidad mediana. La escorrentia es lenta y son dificiles de trabajar.

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Nontechnical Descriptions
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FaC2 - Fajardo Clay, 2 To 10 Percent Slopes, Eroded

THE FAJARDO SERIES CONSISTS OF VERY DEEP, SOMEWHAT POORLY DRAINED SOILS IN ALLUVIAL FANS AND TERRACES OF COASTAL PLAINS. THEY FORMED IN CLAYEY MATERIAL OF MIXED ORIGIN. TYPICALLY THESE SOILS HAVE DARK GRAYISH BROWN, CLAY SURFACE LAYERS 9 INCHES THICK. THE UPPER SUBSOIL IS YELLOWISH BROWN CLAY. THE LOWER SUBSOIL TO 60 INCHES IS RED, LIGHT GRAY, GRAY, YELLOWISH BROWN, AND LIGHT BLUISH GRAY CLAY.

Fajardo arcilloso, 2-10 por ciento de inclinacion, erodado. Suelos profundos, algo mal drenados, ligeramente a medianamente acidos, textura fina, permeabilidad lenta, capacidad de retencion de agua alta, potencial expansivo alto y fertilidad mediana. La escorrentia es lenta y son dificiles de trabajar.

Fo - Fortuna Clay

THE FORTUNA SERIES CONSISTS OF VERY DEEP, POORLY DRAINED SOILS ON FLOOD PLAINS. THEY FORMED IN CLAYEY SEDIMENTS OF MIXED ORIGIN. TYPICALLY, THESE SOILS HAVE A OLIVE GRAY CLAY SURFACE LAYER 5 INCHES THICK. THE SUBSOIL FROM 5 TO 30 INCHES IS DARK GREENISH GRAY AND GREENISH GRAY CLAY. THE SUBSTRATUM FROM 30 TO 77 INCHES IS GREENISH GRAY CLAY. SLOPES RANGE FROM 0 TO 2 PERCENT.

Fortuna arcilloso. Suelos profundos, mal drenados, fuertemente acidos, textura fina, permeabilidad lenta, capacidad de retencion de agua alta, potencial de expansion alto y fertiles. Son llanos o casi llanos y sin erosion. La escorrentia es lenta y son dificiles de trabajar.

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Nontechnical Descriptions
Humacao Area, Puerto Rico Eastern Part

FrA - Fraternidad Clay, 0 To 2 Percent Slopes

THE FRATERNIDAD SERIES CONSISTS OF VERY DEEP, MODERATELY WELL DRAINED SOILS ON COASTAL PLAINS. THEY FORMED IN SEDIMENTS DERIVED FROM VOLCANIC ROCKS AND LIMESTONE. TYPICALLY, THESE SOILS HAVE VERY DARK GRAYISH BROWN CLAY SURFACE AND SUBSURFACE LAYERS 11 INCHES THICK. THE SUBSTRATUM FROM 11 INCHES TO 60 INCHES IS BROWN CLAY.

Fraternidad arcilloso. Suelos profundos, moderadamente bien drenados, de ligeramente acidos a fuertemente alcalinos, textura fina, permeabilidad lenta, capacidad de retencion de agua alta, fertilidad alta y potencial expansivo muy alto. Llanos o casi llanos y sin erosion. La escorrentia es lenta y son dificiles de trabajar.

FrB - Fraternidad Clay, 2 To 5 Percent Slopes

THE FRATERNIDAD SERIES CONSISTS OF VERY DEEP, MODERATELY WELL DRAINED SOILS ON COASTAL PLAINS. THEY FORMED IN SEDIMENTS DERIVED FROM VOLCANIC ROCKS AND LIMESTONE. TYPICALLY, THESE SOILS HAVE VERY DARK GRAYISH BROWN CLAY SURFACE AND SUBSURFACE LAYERS 11 INCHES THICK. THE SUBSTRATUM FROM 11 INCHES TO 60 INCHES IS BROWN CLAY.

Fraternidad arcilloso, 2-5 por ciento de inclinacion. Suelos profundos, moderadamente bien drenados, de ligeramente acidos a fuertemente alcalinos, textura fina, permeabilidad lenta, capacidad de retencion de agua alta, fertilidad alta y potencial expansivo muy alto. Ligeramente inclinados. La escorrentia es lenta y son dificiles de trabajar.

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Nontechnical Descriptions
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Gm - Guamani Silty Clay Loam

THE GUAMANI SERIES CONSISTS OF MODERATELY DEEP, WELL DRAINED SOILS ON FLOOD PLAINS. THEY FORMED IN LOAMY SEDIMENTS OVER SAND AND GRAVEL. TYPICALLY THESE SOILS HAVE A VERY DARK GRAYISH BROWN SILTY CLAY LOAM SURFACE LAYERS 6 INCHES THICK. THE SUBSOIL FROM 6 TO 20 INCHES IS BROWN SILTY CLAY LOAM. THE SUBSTRATUM FROM 20 TO 60 INCHES IS SAND AND GRAVEL WITH SOME COBBLES. SLOPES RANGE FROM 0 TO 2 PERCENT.

Guamani limo arcilloso lomico. Suelos profundos, bien drenados, ligeramente acidos, textura moderadamente fina, capacidad de retencion de agua baja, y potencial de expansion bajo. Son fertiles y faciles de trabajar. La escorrentia es mediana.

GuE2 - Guayabota Silty Clay Loam, 20 To 40 Slopes, Eroded

THE GUAYABOTA SERIES CONSISTS OF SHALLOW, POORLY DRAINED SOILS IN SIDESLOPES. THEY FORMED ON CLAYEY OVER LOAMY MATERIAL DERIVED FROM SILTSTONE. TYPICALLY THESE SOILS HAVE A VERY DARK GRAY, SILTY CLAY LOAM SURFACE LAYER 5 INCHES THICK. SUBSOIL IS DARK OLIVE GRAY, SILTY CLAY. SUBSTRATUM TO 18 INCHES IS DARK BLUISH GRAY, DARK GREENISH GRAY, AND YELLOWISH RED SILT CLAY LOAM. BELOW THIS LAYER IS THE HARD SILTSTONE.

Guayabota limo arcilloso lomico, 20-40 por ciento de inclinacion, erodado. Suelos poco profundos, mal drenados, de extremada a muy fuertemente acido, textura fina a gruesa, permeabilidad lenta, capacidad de retencion de agua alta, potencial de expansion moderado y escorrentia de rapida a mediana.

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Nontechnical Descriptions
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GvF - Guayabota-Ciales-Picacho Association, Very Steep

THE CIALES SERIES CONSISTS OF VERY DEEP, POORLY DRAINED SOILS ON RIDGETOPS AND SIDESLOPES. THEY FORMED IN MATERIALS DERIVED FROM VOLCANIC ROCKS. TYPICALLY, THEY HAVE A DARK BROWN SILTY CLAY LOAM SURFACE LAYER, 7 INCHES THICK. THE SUBSOIL FROM 7 TO 26 INCHES IS GRAY CLAY. THE SUBSOIL FROM 26 TO 33 INCHES IS REDDISH YELLOW CLAY. THE SUBSTRATUM FROM 33 TO 60 INCHES IS SILTY CLAY LOAM AND SILT LOAM.

THE GUAYABOTA SERIES CONSISTS OF SHALLOW, POORLY DRAINED SOILS IN SIDESLOPES. THEY FORMED ON CLAYEY OVER LOAMY MATERIAL DERIVED FROM SILTSTONE. TYPICALLY THESE SOILS HAVE A VERY DARK GRAY, SILTY CLAY LOAM SURFACE LAYER 5 INCHES THICK. SUBSOIL IS DARK OLIVE GRAY, SILTY CLAY. SUBSTRATUM TO 18 INCHES IS DARK BLUISH GRAY, DARK GREENISH GRAY, AND YELLOWISH RED SILT CLAY LOAM. BELOW THIS LAYER IS THE HARD SILTSTONE.

THE PICACHO SERIES CONSISTS OF VERY DEEP, MODERATELY WELL DRAINED SOILS ON UPLANDS. THEY FORMED IN CLAYEY MATERIALS DERIVED FROM VOLCANIC ROCKS. TYPICALLY, THESE SOILS HAVE A DARK YELLOWISH BROWN SILTY CLAY LOAM SURFACE LAYER, 9 INCHES THICK. THE SUBSOIL FROM 9 INCHES TO 35 INCHES HAS LAYERS OF YELLOWISH BROWN, STRONG BROWN AND REDDISH YELLOW CLAY. THE SUBSTRATUM FROM 35 INCHES TO 65 INCHES IS YELLOWISH RED CLAY LOAM AND SILTY CLAY LOAM. IT IS UNDERLAIN BY LOAM SAPROLITE.

Asociacion Guayabota-Ciales-Picacho, muy inclinado. Esta unidad cartografica se encuentra en las montanas del bosque lluvioso. La composicion es variable. Alrededor de 50 por ciento lo comprenden los suelos Guayabota, 20 por ciento Ciales, 15 por ciento Picacho y 10 por ciento terreno rocoso. Se encuentran en esta unidad pequenas areas mejor drenadas, suelos arcillosos y suelos similares a los Guayabota, pero mas profundos a la roca. Estos suelos ocurren en un patron uniforme. Toda la unidad cartografica se encuentra en el bosque lluvioso.

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GyC2 - Guayama Clay Loam, Moderately Deep Variant, 2 To 12 Percent, Slopes, Eroded

THE GUAYAMA VARIANT CONSISTS OF MODERATELY DEEP, WELL DRAINED SOILS ON SIDE SLOPES AND FOOT SLOPES. THEY FORMED IN MATERIAL WEATHERED FROM VOLCANIC ROCKS. TYPICALLY THESE SOILS HAVE A DARK YELLOWISH BROWN CLAY LOAM SURFACE LAYER 8 INCHES THICK. THE SUBSOIL IS RED CLAY TO 26 INCHES. BELOW THIS IS SEMICONSOLIDATED VOLCANIC ROCK.

Guayama arcilloso lomico, variante moderadamente profunda, 2-12 por ciento de inclinacion, erosionado. Suelos moderadamente profundos, bien drenados, textura fina y moderadamente fina, de fuerte a ligeramente acido, permeabilidad moderada y capacidad de retencion de agua moderada. La fertilidad es mediana y el potencial de expansion moderada. La escorrentia es mediana. Estos suelos son dificiles de trabajar.

HmB - Humacao Loam, 2 To 5 Percent Slopes

THE HUMACAO SERIES CONSISTS OF VERY DEEP, WELL DRAINED SOILS ON TERRACES. THEY FORMED IN SEDIMENTS DERIVED FROM WEATHERED VOLCANIC ROCKS. TYPICALLY THESE SOILS HAVE A DARK BROWN LOAM SURFACE LAYER 14 INCHES THICK. THE SUBSOIL FROM 14 TO 18 INCHES IS BROWN SANDY CLAY LOAM. THE SUBSTRATUM FROM 18 TO 55 INCHES IS YELLOWISH BROWN CLAY LOAM.

Humacao lomico, 2-5 por ciento de inclinacion. Suelos profundos, bien drenados, de fuerte a medianamente acido, textura mediana, permeabilidad moderada y capacidad de retencion de agua moderada. La escorrentia es lenta. Estos suelos son faciles de trabajar. Un manejo esencial es necesario para el control de erosjon.

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Nontechnical Descriptions
Humacao Area, Puerto Rico Eastern Part

HtE2 - Humatas Clay, 20 To 40 Percent Slopes, Eroded

THE HUMATAS SERIES CONSISTS OF VERY DEEP, WELL DRAINED SOILS ON UPLANDS. THEY FORMED IN MATERIAL WEATHERED FROM VOLCANIC ROCK. TYPICALLY THESE SOILS HAVE A DARK BROWN CLAY SURFACE LAYER 4 INCHES THICK. THE SUBSOIL FROM 4 TO 9 INCHES IS YELLOWISH RED CLAY, FROM 9 TO 25 INCHES IS RED CLAY, AND FROM 25 TO 60 INCHES IS RED SILTY CLAY LOAM SAPROLITE.

Humatas arcilloso, 20-40 por ciento de inclinacion, erodado. Suelos profundos, bien drenados, muy fuertemente acidos, textura fina, riscosos, permeabilidad y erosión moderadas. La capacidad de retención de agua alta y la fertilidad es moderada. La escorrentía es rápida. El potencial de expansión es moderado. La inclinación, la escorrentía rápida y la erosión limitan estos suelos para el cultivo limpio.

HtF2 - Humatas Clay, 40 To 60 Percent Slopes, Eroded

THE HUMATAS SERIES CONSISTS OF VERY DEEP, WELL DRAINED SOILS ON UPLANDS. THEY FORMED IN MATERIAL WEATHERED FROM VOLCANIC ROCK. TYPICALLY THESE SOILS HAVE A DARK BROWN CLAY SURFACE LAYER 4 INCHES THICK. THE SUBSOIL FROM 4 TO 9 INCHES IS YELLOWISH RED CLAY, FROM 9 TO 25 INCHES IS RED CLAY, AND FROM 25 TO 60 INCHES IS RED SILTY CLAY LOAM SAPROLITE.

Humatas arcilloso, 40-60 por ciento de inclinación, erodado. Suelos profundos, bien drenados, muy fuertemente acidos, textura fina, muy riscosos, permeabilidad y erosión moderada. La capacidad de retención de agua es alta y la fertilidad es moderada. La escorrentía es muy rápida.

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Nontechnical Descriptions
Humacao Area, Puerto Rico Eastern Part

HuF - Humatas-Stony Land Complex, 40 To 60 Percent Slopes

STONY LAND CONSISTS OF AREAS OF STONES AND BOULDERS.

THE HUMATAS SERIES CONSISTS OF VERY DEEP, WELL DRAINED SOILS ON UPLANDS. THEY FORMED IN MATERIAL WEATHERED FROM VOLCANIC ROCK. TYPICALLY THESE SOILS HAVE A DARK BROWN CLAY SURFACE LAYER 4 INCHES THICK. THE SUBSOIL FROM 4 TO 9 INCHES IS YELLOWISH RED CLAY, FROM 9 TO 25 INCHES IS RED CLAY, AND FROM 25 TO 60 INCHES IS RED SILTY CLAY LOAM SAPROLITE.

Complejo Humatas-estrato pedregoso, 40-60 por ciento de inclinacion. Esta unidad cartografica consiste de partes iguales de Humatas arcilloso y terreno rocoso. Ocurren en patrones dificiles de separar. El area de terreno rocoso esta cubierta de rocas y penascos que varian de 1 a 15 pies de diametro.

InE2 - Ingenio Silty Clay Loam, 20 To 40 Percent Slopes, Eroded

THE INGENIO SERIES CONSISTS OF VERY DEEP, WELL DRAINED SOILS IN SIDESLOPES AND RIDGES. THEY FORMED IN CLAYEY OVER LOAMY MATERIALS WEATHERED FROM PLUTONIC ROCKS. TYPICALLY THESE SOILS HAVE YELLOWISH BROWN, SILTY CLAY LOAM SURFACE LAYERS 7 INCHES THICK. THE SUBSOIL IS RED CLAY OR SILTY CLAY. THE UPPER SUBSTRATUM IS SILTY CLAY LOAM. THE LOWER SUBSTRATUM TO 60 INCHES IS SILT LOAM.

Ingenio limo arcilloso lomico, 20-40 por ciento de inclinacion, erodado. Suelos profundos, bien drenados, fuertemente acidos, textura mediana a fina, permeabilidad moderada, capacidad de retencion de agua moderada y fertilidad mediana. La escorrentia es mediana a rapida.

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JaB - Jacana Clay, 2 To 5 Percent Slopes

THE JACANA SERIES CONSISTS OF MODERATELY DEEP, WELL DRAINED SOILS ON ALLUVIAL FANS, FOOTSLOPES AND HILLS. THEY FORMED IN CLAYEY MATERIALS WEATHERED FROM VOLCANIC ROCKS. TYPICALLY, THESE SOILS HAVE VERY DARK BROWN, CLAY SURFACE LAYERS 6 INCHES THICK. THE LAYER FROM 6 TO 21 INCHES IS DARK BROWN, CLAY. THE LAYER FROM 21 TO 28 INCHES IS SANDY CLAY LOAM AND CLAY LOAM. BELOW IS SEMICONSOLIDATED VOLCANIC ROCK.

Jacana arcilloso, 2-5 por ciento de inclinacion. Suelos moderadamente profundos, bien drenados, neutral a medianamente acidos, textura fina, permeabilidad moderadamente lenta, fertilidad alta y potencial de expansion alto. La escorrentia es mediana y los suelos dificiles de trabajar.

JaC2 - Jacana Clay, 5 To 12 Percent Slopes, Eroded

THE JACANA SERIES CONSISTS OF MODERATELY DEEP, WELL DRAINED SOILS ON ALLUVIAL FANS, FOOTSLOPES AND HILLS. THEY FORMED IN CLAYEY MATERIALS WEATHERED FROM VOLCANIC ROCKS. TYPICALLY, THESE SOILS HAVE VERY DARK BROWN, CLAY SURFACE LAYERS 6 INCHES THICK. THE LAYER FROM 6 TO 21 INCHES IS DARK BROWN, CLAY. THE LAYER FROM 21 TO 28 INCHES IS SANDY CLAY LOAM AND CLAY LOAM. BELOW IS SEMICONSOLIDATED VOLCANIC ROCK.

Jacana arcilloso, 5-12 por ciento de inclinacion, erodado. Suelos moderadamente profundos, bien drenados, neutral a medianamente acidos, textura fina, permeabilidad moderadamente lenta, fertilidad alta y potencial de expansion alto. La escorrentia es mediana y los suelos dificiles de trabajar.

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JgE2 - Jagueyes Loam, 20 To 40 Percent Slopes, Eroded

THE JAGUEYES SERIES CONSISTS OF VERY DEEP, WELL DRAINED SOILS ON SIDESLOPES AND RIDGES. THEY FORMED IN LOAMY MATERIAL WEATHERED FROM PLUTONIC ROCKS. TYPICALLY THESE SOILS HAVE DARK GRAYISH BROWN, SANDY LOAM SURFACE LAYER 8 INCHES THICK. THE UNDERLYING LAYER TO 18 INCHES IS YELLOWISH BROWN SANDY CLAY LOAM. THE UPPER SUBSOIL IS YELLOWISH CLAY LOAM. THE LOWER SUBSOIL IS RED, SANDY CLAY LOAM. THE SUBSTRATUM TO 95 INCHES IS RED, LOAMY SAPROLITE.

Jagueyes lomico, 20-40 por ciento de inclinacion, erodado. Suelos profundos, bien drenados, muy fuertemente acidos, textura fina a gruesa, permeabilidad moderada, capacidad de retencion de agua moderada, fertilidad mediana y potencial de expansion bajo. La escorrentia es mediana.

JuC - Junquitos Gravelly Clay Loam, 5 To 12 Percent Slopes

THE JUNQUITOS SERIES CONSISTS OF DEEP, MODERATELY WELL DRAINED SOILS IN FOOTSLOPES AND ALLUVIAL FANS. THEY FORMED IN CLAYEY MATERIALS OF MIXED ORIGIN. TYPICALLY THESE SOILS HAVE BROWN GRAVELLY CLAY LOAM SURFACE LAYER 7 INCHES THICK. THE SUBSOIL IS YELLOWISH BROWN CLAY. THE SUBSTRATUM 35 INCHES IS BROWNISH YELLOW CLAY. BELOW THIS LAYER IS PARTIALLY DECOMPOSED VOLCANIC ROCK FRAGMENTS.

Junquitos gravoso arcilloso lomico, 5-12 por ciento de inclinacion. Suelos moderadamente profundos, moderadamente bien drenados, de neutrales a extremadamente acido, textura de fina a gruesa, permeabilidad moderadamente lenta, capacidad de retencion de alta y potencial de expansion moderada. La escorrentia es mediana. Los suelos son dificiles de trabajar.

Lc - Leveled Clayey Land

THESE AREAS CONSIST OF DRASTICALLY DISTURBED AREAS OF SOIL. THE PROPERTIES OF THE SOIL ARE VARIABLE.

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LeE2 - Limones Silty Clay, 20 To 40 Percent Slopes, Eroded

THE LIMONES SERIES CONSISTS OF DEEP, MODERATELY WELL DRAINED SOILS IN SIDESLOPES AND RIDGETOPS. THEY FORMED IN MATERIAL WEATHERED FROM PLUTONIC ROCKS. TYPICALLY THESE SOILS HAVE DARK YELLOWISH BROWN, CLAY SURFACE LAYER 5 INCHES THICK. THE UPPER SUBSOIL TO 16 INCHES IS YELLOWISH BROWN, CLAY. THE LOWER SUBSOIL IS YELLOWISH RED CLAY. THE SUBSTRATUM AT 40 INCHES IS SAPROLITE.

Limones limo arcilloso, 20-40 por ciento de inclinacion, erodado. Suelos profundos, moderadamente bien drenados, muy fuertemente acidos, textura fina, retencion de agua alta, escorrentia moderada a rapida y susceptibles a erosion.

LoC2 - Lirios Clay Loam, 3 To 10 Percent Slopes, Eroded

THE LIRIOS SERIES CONSISTS OF VERY DEEP, WELL DRAINED SOILS ON UPLANDS. THEY FORMED IN MATERIAL WEATHERED FROM VOLCANIC ROCKS. TYPICALLY THESE SOILS HAVE A DARK BROWN SILTY CLAY LOAM SURFACE LAYER 4 INCHES THICK. THE SUBSOIL FROM 4 TO 14 INCHES IS RED CLAY AND FROM 14 TO 23 INCHES IS RED SILTY CLAY. THE SUBSTRATUM FROM 23 TO 60 INCHES IS RED, STRONG BROWN, REDDISH BROWN, AND PINK SILTY CLAY SAPROLITE.

Lirios arcilloso lomico, 3-10 por ciento de inclinacion. Suelos profundos, bien drenados, muy fuertemente acidos, textura fina, permeabilidad moderada, capacidad de retencion de agua alta, escorrentia de moderada a rapida y susceptibles a erosion.

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LrE2 - Lirios Silty Clay Loam, 20 To 40 Percent Slopes, Eroded

THE LIRIOS SERIES CONSISTS OF VERY DEEP, WELL DRAINED SOILS ON UPLANDS. THEY FORMED IN MATERIAL WEATHERED FROM VOLCANIC ROCKS. TYPICALLY THESE SOILS HAVE A DARK BROWN SILTY CLAY LOAM SURFACE LAYER 4 INCHES THICK. THE SUBSOIL FROM 4 TO 14 INCHES IS RED CLAY AND FROM 14 TO 23 INCHES IS RED SILTY CLAY. THE SUBSTRATUM FROM 23 TO 60 INCHES IS RED, STRONG BROWN, REDDISH BROWN, AND PINK SILTY CLAY SAPROLITE.

Lirios limo arcilloso lomico, 20-40 por ciento de inclinacion, erodado. Suelos profundos, bien drenados, muy fuertemente acidos, textura fina, permeabilidad moderada, capacidad de retencion de agua alta, escorrentia de moderada a rapida y susceptibles a erosjon.

LsD - Los Guineos Silty Clay Loam, 12 To 20 Percent Slopes

THE LOS GUINEOS SERIES CONSISTS OF VERY DEEP, MODERATELY WELL DRAINED SOILS ON UPLANDS. THEY FORMED IN MATERIAL WEATHERED FROM VOLCANIC ROCKS. TYPICALLY THESE SOILS HAVE A BROWN SILTY CLAY LOAM SURFACE LAYER 5 INCHES THICK. THE CLAY SUBSOIL FROM 5 TO 15 INCHES IS YELLOWISH BROWN, FROM 15 TO 24 INCHES IS REDDISH YELLOW, FROM 24 TO 34 INCHES IS RED AND STRONG BROWN, AND FROM 34 TO 48 INCHES IS RED AND REDDISH YELLOW. THE SUBSTRATUM FROM 48 TO 60 INCHES IS CLAY SAPROLITE.

Los Guineos limo arcilloso lomico, 12-20 por ciento de inclinacion. Suelos profundos, moderadamente bien drenados, de muy fuerte a extremadamente acido, textura fina, permeabilidad moderada, capacidad de retencion de agua alta y fertilidad mediana. La escorrentia es de mediana a rapida. Los suelos son susceptibles a la erosjon y dificiles de trabajar.

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LSE2 - Los Guineos Silty Clay Loam, 20 To 40 Percent Slopes, Eroded

THE LOS GUINEOS SERIES CONSISTS OF VERY DEEP, MODERATELY WELL DRAINED SOILS ON UPLANDS. THEY FORMED IN MATERIAL WEATHERED FROM VOLCANIC ROCKS. TYPICALLY THESE SOILS HAVE A BROWN SILTY CLAY LOAM SURFACE LAYER 5 INCHES THICK. THE CLAY SUBSOIL FROM 5 TO 15 INCHES IS YELLOWISH BROWN, FROM 15 TO 24 INCHES IS REDDISH YELLOW, FROM 24 TO 34 INCHES IS RED AND STRONG BROWN, AND FROM 34 TO 48 INCHES IS RED AND REDDISH YELLOW. THE SUBSTRATUM FROM 48 TO 60 INCHES IS CLAY SAPROLITE.

Los Guineos limo arcilloso lomico, 20-40 por ciento de inclinacion, erodado. Suelos profundos, moderadamente bien drenado, de muy fuerte a extremadamente acidos, textura fina, permeabilidad moderada, capacidad de retencion de agua alta y fertilidad mediana. La escorrentia es de mediana a rapida. Los suelos son susceptibles a la erosion y dificiles de trabajar.

LsF2 - Los Guineos Silty Clay Loam, 40 To 60 Percent Slopes, Eroded

THE LOS GUINEOS SERIES CONSISTS OF VERY DEEP, MODERATELY WELL DRAINED SOILS ON UPLANDS. THEY FORMED IN MATERIAL WEATHERED FROM VOLCANIC ROCKS. TYPICALLY THESE SOILS HAVE A BROWN SILTY CLAY LOAM SURFACE LAYER 5 INCHES THICK. THE CLAY SUBSOIL FROM 5 TO 15 INCHES IS YELLOWISH BROWN, FROM 15 TO 24 INCHES IS REDDISH YELLOW, FROM 24 TO 34 INCHES IS RED AND STRONG BROWN, AND FROM 34 TO 48 INCHES IS RED AND REDDISH YELLOW. THE SUBSTRATUM FROM 48 TO 60 INCHES IS CLAY SAPROLITE.

Los Guineos limo arcilloso lomico, 40-60 por ciento de inclinacion. Suelos profundos, moderadamente bien drenado, de muy fuerte a extremadamente acido, textura fina, permeabilidad moderada, capacidad de retencion de agua alta y fertilidad mediana. La escorrentia es rapida. Los suelos son susceptibles a la erosion y dificiles de trabajar.

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

Nontechnical Descriptions
Humacao Area, Puerto Rico Eastern Part

LyF - Los Guineos-Yunque-Stony Rock Land Association Steep

STONY LAND CONSISTS OF AREAS OF STONES AND BOULDERS.

THE LOS GUINEOS SERIES CONSISTS OF VERY DEEP, MODERATELY WELL DRAINED SOILS ON UPLANDS. THEY FORMED IN MATERIAL WEATHERED FROM VOLCANIC ROCKS. TYPICALLY THESE SOILS HAVE A BROWN SILTY CLAY LOAM SURFACE LAYER 5 INCHES THICK. THE CLAY SUBSOIL FROM 5 TO 15 INCHES IS YELLOWISH BROWN, FROM 15 TO 24 INCHES IS REDDISH YELLOW, FROM 24 TO 34 INCHES IS RED AND STRONG BROWN, AND FROM 34 TO 48 INCHES IS RED AND REDDISH YELLOW. THE SUBSTRATUM FROM 48 TO 60 INCHES IS CLAY SAPROLITE.

THE YUNQUE SERIES CONSISTS OF VERY DEEP, MODERATELY WELL DRAINED, SOILS IN RIDGETOPS AND UPPER SIDESLOPES. THEY FORMED IN CLAYEY MATERIALS WEATHERED FROM VOLCANIC ROCK. THESE SOILS HAVE A DARK YELLOWISH BROWN, SILTY CLAY SURFACE LAYER. THE UPPER SUBSOIL IS YELLOWISH BROWN CLAY. THE LOWER SUBSOIL IS YELLOWISH RED CLAY.

Asociacion los Guineos-Yunque-estrato pedregoso. Esta unidad cartografica esta en las montanas del bosque lluvioso forestal. El suelo ocurre en patrones uniformes; los suelos Guineos estan en la laderas de las montanas y los suelos Yunques en la parte superior de las montanas. El terreno rocoso esta en la parte inferior de las laderas y a lo largo de los drenajes. Los declives varian entre 25-65 por ciento en las laderas, de 10-35 por ciento en la parte superior y de 25-75 por ciento de terreno rocoso. La composicion de esta unidad cartografica es mas variable que la de otras unidades cartograficas. Alrededor del 50 por ciento consiste de los suelos Los Guineos, 31 por ciento suelos Yunque y 10 por ciento terreno rocoso. El resto consiste de otros suelos, rocas y penascos.

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

Nontechnical Descriptions
Humacao Area, Puerto Rico Eastern Part

MaB - Mabi Clay, 0 To 5 Percent Slopes

THE MABI SERIES CONSISTS OF VERY DEEP, SOMEWHAT POORLY DRAINED SOILS THEY FORMED IN CLAYEY SEDIMENTS ON ALLUVIAL FANS AND TERRACES. TYPICALLY THESE SOILS HAVE A VERY DARK GRAYISH BROWN CLAY SURFACE LAYER 7 INCHES THICK. THE SUBSURFACE LAYER TO 24 INCHES IS YELLOWISH BROWN CLAY. THE UNDERLYING LAYER TO 90 INCHES IS YELLOWISH BROWN CLAY.

Mabi arcilloso, 0-5 por ciento de inclinacion. Suelos profundos, algo mal drenados, de medianamente a muy fuertemente acidos, textura fina a gruesa. permeabilidad lenta, capacidad de retencion de agua alta, casi llanos a ligeramente inclinados, fertiles y con alto potencial expansivo. La escorrentia es de mediana a lenta. Son dificiles de trabajar.

MaC2 - Mabi Clay, 5 To 12 Percent Slopes, Eroded

THE MABI SERIES CONSISTS OF VERY DEEP, SOMEWHAT POORLY DRAINED SOILS THEY FORMED IN CLAYEY SEDIMENTS ON ALLUVIAL FANS AND TERRACES. TYPICALLY THESE SOILS HAVE A VERY DARK GRAYISH BROWN CLAY SURFACE LAYER 7 INCHES THICK. THE SUBSURFACE LAYER TO 24 INCHES IS YELLOWISH BROWN CLAY. THE UNDERLYING LAYER TO 90 INCHES IS YELLOWISH BROWN CLAY.

Mabi arcilloso, 5-12 por ciento de inclinacion, erodado. Suelos profundos, algo mal drenados, de medianamente a muy fuertemente acidos, textura fina a gruesa. permeabilidad lenta, capacidad de retencion de agua alta, inclinados, erosivos, fertiles y con alto potencial expansivo. La escorrentia es de mediana a lenta. Son dificiles de trabajar.

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

Nontechnical Descriptions
Humacao Area, Puerto Rico Eastern Part

MaD2 - Mabi Clay, 12 To 20 Percent Slopes, Eroded

THE MABI SERIES CONSISTS OF VERY DEEP, SOMEWHAT POORLY DRAINED SOILS THEY FORMED IN CLAYEY SEDIMENTS ON ALLUVIAL FANS AND TERRACES. TYPICALLY THESE SOILS HAVE A VERY DARK GRAYISH BROWN CLAY SURFACE LAYER 7 INCHES THICK. THE SUBSURFACE LAYER TO 24 INCHES IS YELLOWISH BROWN CLAY. THE UNDERLYING LAYER TO 90 INCHES IS YELLOWISH BROWN CLAY.

Mabi arcilloso, 12-20 por ciento de inclinacion, erodado. Suelos profundos, algo mal drenados, de medianamente a muy fuertemente acidos, textura fina a gruesa. permeabilidad lenta, capacidad de retencion de agua alta, moderadamente riscosos, erosivos, fertiles y con alto potencial expansivo. Son mejor drenados que otros suelos Mabi. La erosion ha removido parte de la capa superficial; la cual se ha mezclado con el subsuelo. La escorrentia es de mediana a lenta. Son dificiles de trabajar.

McA - Machete Loam, 0 To 2 Percent Slopes

THE MACHETE SERIES CONSISTS OF VERY DEEP, WELL DRAINED SOILS ON TERRACES AND ALLUVIAL FANS. THEY FORMED IN LOAMY SEDIMENTS DERIVED FROM VOLCANIC ROCKS. TYPICALLY THESE SOILS HAVE REDDISH BROWN LOAM SURFACE AND SUBSURFACE LAYERS 14 INCHES THICK. THE UPPER SUBSOIL IS REDDISH BROWN CLAY LOAM. THE NEXT LAYER TO 32 INCHES IS YELLOWISH RED CLAY. THE LOWER SUBSOIL IS REDDISH BROWN SANDY CLAY LOAM TO 39 INCHES. THE UPPER SUBSTRATUM IS REDDISH BROWN GRAVELLY SANDY CLAY LOAM. BELOW THIS LAYER IS LOAMY SAND.

Machete lomico, 0-2 por ciento de inclinacion. Suelos profundos, bien drenados, permeabilidad moderada, fuertemente acido, textura moderadamente gruesa a fina, capacidad de retencion de agua moderada y fertiles. Suelos llanos y casi llanos, sin erosion. La escorrentia es de mediana a lenta. Los suelos son faciles de trabajar.

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

Nontechnical Descriptions
Humacao Area, Puerto Rico Eastern Part

McB - Machete Loam, 2 To 5 Percent Slopes

THE MACHETE SERIES CONSISTS OF VERY DEEP, WELL DRAINED SOILS ON TERRACES AND ALLUVIAL FANS. THEY FORMED IN LOAMY SEDIMENTS DERIVED FROM VOLCANIC ROCKS. TYPICALLY THESE SOILS HAVE REDDISH BROWN LOAM SURFACE AND SUBSURFACE LAYERS 14 INCHES THICK. THE UPPER SUBSOIL IS REDDISH BROWN CLAY LOAM. THE NEXT LAYER TO 32 INCHES IS YELLOWISH RED CLAY. THE LOWER SUBSOIL IS REDDISH BROWN SANDY CLAY LOAM TO 39 INCHES. THE UPPER SUBSTRATUM IS REDDISH BROWN GRAVELLY SANDY CLAY LOAM. BELOW THIS LAYER IS LOAMY SAND.

Machete lomico, 2-5 por ciento de inclinacion. Suelos profundos, bien drenados, permeabilidad moderada, fuertemente acidos, textura moderadamente gruesa a fina, capacidad de retencion de agua moderada y fertiles. Suelos inclinados, sin erosion. La escorrentia es de mediana a lenta. Los suelos son faciles de trabajar.

Md - Made Land

THESE AREAS CONSIST OF DRASTICALLY DISTURBED AREAS OF SOIL. THE PROPERTIES OF THE SOIL ARE VARIABLE.

Terreno creado (Made Land). Consiste de areas donde el perfil de suelo ha sido cubierto o destruido por el movimiento del terreno.

U.S. DEPARTMENT OF AGRICULTURE
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Nontechnical Descriptions
Humacao Area, Puerto Rico Eastern Part

Me - Maunabo Clay

THE MAUNABO SERIES CONSISTS OF DEEP, POORLY DRAINED, SOILS IN FLOODPLAINS. THEY FORMED IN CLAYEY OVER SANDY SEDIMENTS DERIVED FROM GRANITIC ROCKS. TYPICALLY THESE SOILS HAVE LIGHT BROWNISH GRAY AND GRAYISH BROWN, CLAY SURFACE AND SUBSURFACE LAYERS 10 INCHES THICK. THE SUBSOIL IS GRAY, CLAY AND SILTY CLAY. THE SUBSTRATUM TO 48 INCHES IS GREENISH GRAY SANDY LOAM. SLOPE RANGES FROM 0 TO 2 PERCENT.

Maunabo arcilloso. Suelos profundos, mal drenados, fuertemente acidos, textura fina, permeabilidad lenta, capacidad de retencion de agua alta, fertiles, llanos, casi llanos y sin erosion. La escorrentia es lenta. Los suelos son dificiles de trabajar.

MlC - Mayo Loam, 3 To 10 Percent Slopes

THE MAYO SERIES CONSISTS OF VERY DEEP, EXCESSIVELY DRAINED SOILS ON ALLUVIAL FANS AND TERRACES. THEY FORMED IN LOAMY SEDIMENTS DERIVED FROM PLUTONIC ROCKS. TYPICALLY, THESE SOILS HAVE A VERY DARK BROWN SANDY LOAM SURFACE LAYER 8 INCHES THICK. THE SUBSOIL FROM 8 TO 18 INCHES IS DARK BROWN SANDY LOAM. THE SUBSTRATUM FROM 18 TO 60 INCHES IS BROWN AND PALE BROWN SANDY LOAM.

Mayo lomico, 3-10 por ciento de inclinacion. Suelos profundos, bien drenados, muy fuertemente acido, textura gruesa, permeabilidad rapida, capacidad de retencion de agua baja y potencial de expansion bajo. La escorrentia es mediana y los suelos son faciles de trabajar.

U.S. DEPARTMENT OF AGRICULTURE
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Nontechnical Descriptions
Humacao Area, Puerto Rico Eastern Part

MrB - Meros Sand, 1 To 6 Percent Slopes

THE MEROS SERIES CONSISTS OF VERY DEEP, EXCESSIVELY DRAINED SOILS ON BEACH RIDGES. THEY FORMED IN FRAGMENTS OF VOLCANIC ROCK, SEA SHELLS, AND CORAL. TYPICALLY THESE SOILS HAVE A VERY DARK GRAYISH BROWN SANDY SURFACE AND SUBSURFACE LAYERS, 14 INCHES THICK. THE SUBSTRATUM FROM 14 TO 60 INCHES IS DARK YELLOWISH BROWN, BLACK, OLIVE BROWN, AND VERY DARK GRAYISH BROWN FINE SANDY AND SAND.

Meros arenoso, 1-6 por ciento de inclinacion. Suelos profundos, excesivamente drenados, neutrales a moderadamente alcalinos, textura gruesa, permeabilidad muy rapida, capacidad de retencion de agua baja y fertilidad muy baja. Suelos casi llanos y sin erosion.

MuD2 - Mucara Silty Clay Loam, 12 To 20 Percent Slopes, Eroded

THE MUCARA SERIES CONSISTS OF SHALLOW, WELL DRAINED SOILS ON UPLANDS. THEY FORMED IN MATERIAL WEATHERED FROM VOLCANIC ROCKS. TYPICALLY THESE SOILS HAVE A VERY DARK GRAYISH BROWN CLAY SURFACE LAYER 6 INCHES THICK. THE SUBSOIL FROM 6 TO 12 INCHES IS VERY DARK GRAYISH BROWN AND BROWN CLAY. HIGHLY WEATHERED VOLCANIC ROCK IS AT 12 TO 22 INCHES SEMI-CONSOLIDATED VOLCANIC ROCK IS AT 22 INCHES.

Mucara limo arcilloso lomico, 12-20 por ciento de inclinacion, erodado. Suelos moderadamente profundos, bien drenados, de ligeramente a medianamente acido, textura mediana a fina, permeabilidad moderada, capacidad de retencion de agua alta y potencial de expansion moderado. La escorrentia es moderada. Son fertiles y algo dificiles de trabajar.

U.S. DEPARTMENT OF AGRICULTURE
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Nontechnical Descriptions
Humacao Area, Puerto Rico Eastern Part

MuE2 - Mucara Silty Clay Loam, 20 To 40 Percent Slopes, Eroded

THE MUCARA SERIES CONSISTS OF SHALLOW, WELL DRAINED SOILS ON UPLANDS. THEY FORMED IN MATERIAL WEATHERED FROM VOLCANIC ROCKS. TYPICALLY THESE SOILS HAVE A VERY DARK GRAYISH BROWN CLAY SURFACE LAYER 6 INCHES THICK. THE SUBSOIL FROM 6 TO 12 INCHES IS VERY DARK GRAYISH BROWN AND BROWN CLAY. HIGHLY WEATHERED VOLCANIC ROCK IS AT 12 TO 22 INCHES SEMI-CONSOLIDATED VOLCANIC ROCK IS AT 22 INCHES.

Mucara limo arcilloso lomico, 20-40 por ciento de inclinacion, erodado. Suelos moderadamente profundos, bien drenados, de ligeramente a medianamente acido, textura mediana a fina, permeabilidad moderada, capacidad de retencion de agua alta y potencial de expansion moderado. La escorrentia es rapida. Son fertiles y algo dificiles de trabajar.

NaE2 - Naranjito Silty Clay Loam, 20 To 40 Percent Slopes, Eroded

THE NARANJITO SERIES CONSISTS OF MODERATELY DEEP WELL DRAINED SOILS ON UPLANDS. THEY FORMED IN MATERIAL WEATHERED FROM VOLCANIC ROCKS. TYPICALLY THESE SOILS HAVE A DARK BROWN SILTY CLAY LOAM SURFACE LAYER 7 INCHES THICK. THE SUBSOIL FROM 7 TO 30 INCHES IS YELLOWISH RED AND YELLOWISH BROWN CLAY. THE SUBSTRATUM FROM 30 TO 38 INCHES IS YELLOWISH RED, RED, AND LIGHT OLIVE BROWN CLAY LOAM. SEMI-CONSOLIDATED VOLCANIC ROCK IS AT 38 INCHES.

Naranjito limo arcilloso lomico, 20-40 por ciento de inclinacion, erodado. Suelos moderadamente profundos, bien drenados, de muy fuerte a extremadamente acido, textura moderadamente fina, permeabilidad moderada, capacidad de retencion de agua alta, potencial de expansion moderada y fertilidad mediana. La escorrentia es rapida y los suelos susceptibles a erosjon.

U.S. DEPARTMENT OF AGRICULTURE
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Nontechnical Descriptions
Humacao Area, Puerto Rico Eastern Part

NaF2 - Naranjito Silty Clay Loam, 40 To 60 Percent Slopes, Eroded

THE NARANJITO SERIES CONSISTS OF MODERATELY DEEP WELL DRAINED SOILS ON UPLANDS. THEY FORMED IN MATERIAL WEATHERED FROM VOLCANIC ROCKS. TYPICALLY THESE SOILS HAVE A DARK BROWN SILTY CLAY LOAM SURFACE LAYER 7 INCHES THICK. THE SUBSOIL FROM 7 TO 30 INCHES IS YELLOWISH RED AND YELLOWISH BROWN CLAY. THE SUBSTRATUM FROM 30 TO 38 INCHES IS YELLOWISH RED, RED, AND LIGHT OLIVE BROWN CLAY LOAM. SEMI-CONSOLIDATED VOLCANIC ROCK IS AT 38 INCHES.

Naranjito limo arcilloso lomico, 40-60 por ciento de inclinacion, erodado. Suelos moderadamente profundos, bien drenado, de muy fuerte a extremadamente acido, textura moderadamente fina, permeabilidad moderada, capacidad de retencion de agua alta, potencial de expansion moderada y fertilidad mediana. La escorrentia es muy rapida, muy inclinados y susceptibles a erosion.

PaE2 - Pandura Loam, 12 To 40 Percent Slopes, Eroded

THE PANDURA SERIES CONSISTS OF SHALLOW, WELL DRAINED SOILS ON UPLANDS. THEY FORMED IN MATERIAL WEATHERED FROM VOLCANIC ROCK. TYPICALLY THESE SOILS HAVE A DARK BROWN LOAM SURFACE LAYER 3 INCHES THICK. THE SUBSOIL FROM 3 TO 7 INCHES IS DARK GRAYISH BROWN LOAM AND 7 TO 15 INCHES IS LIGHT OLIVE BROWN SANDY LOAM. THE SUBSTRATUM FROM 15 TO 19 INCHES IS LIGHT OLIVE BROWN SANDY LOAM. WEATHERED VOLCANIC ROCK IS AT 19 INCHES.

Pandura lomico, 12-40 por ciento de inclinacion, erodado. Suelos moderadamente profundos, bien drenados, de ligera a fuertemente acido, textura medianamente fina, permeabilidad moderadamente rapida, la escorrentia es mediana a muy rapida y los suelos son altamente susceptibles a la erosion. La capacidad de retencion de agua es baja.

U.S. DEPARTMENT OF AGRICULTURE
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Nontechnical Descriptions
Humacao Area, Puerto Rico Eastern Part

PaF2 - Pandura Loam, 40 To 60 Percent Slopes, Eroded

THE PANDURA SERIES CONSISTS OF SHALLOW, WELL DRAINED SOILS ON UPLANDS. THEY FORMED IN MATERIAL WEATHERED FROM VOLCANIC ROCK. TYPICALLY THESE SOILS HAVE A DARK BROWN LOAM SURFACE LAYER 3 INCHES THICK. THE SUBSOIL FROM 3 TO 7 INCHES IS DARK GRAYISH BROWN LOAM AND 7 TO 15 INCHES IS LIGHT OLIVE BROWN SANDY LOAM. THE SUBSTRATUM FROM 15 TO 19 INCHES IS LIGHT OLIVE BROWN SANDY LOAM. WEATHERED VOLCANIC ROCK IS AT 19 INCHES.

Pandura lomico, 40-60 por ciento de inclinacion, erodado. Suelos moderadamente profundos, bien drenados, de ligera a fuertemente acido, textura medianamente fina, permeabilidad moderadamente rapida, la escorrentia es mediana a muy rapida y los suelos son altamente susceptibles a la erosion. La capacidad de retencion de agua es baja.

PdF - Pandura-Very Stony Land Complex, 40 To 60 Percent Slopes

STONY LAND CONSISTS OF AREAS OF STONES AND BOULDERS.

THE PANDURA SERIES CONSISTS OF SHALLOW, WELL DRAINED SOILS ON UPLANDS. THEY FORMED IN MATERIAL WEATHERED FROM VOLCANIC ROCK. TYPICALLY THESE SOILS HAVE A DARK BROWN LOAM SURFACE LAYER 3 INCHES THICK. THE SUBSOIL FROM 3 TO 7 INCHES IS DARK GRAYISH BROWN LOAM AND 7 TO 15 INCHES IS LIGHT OLIVE BROWN SANDY LOAM. THE SUBSTRATUM FROM 15 TO 19 INCHES IS LIGHT OLIVE BROWN SANDY LOAM. WEATHERED VOLCANIC ROCK IS AT 19 INCHES.

Complejo Pandura-Estrato muy pedregoso, 40-60 por ciento de inclinacion. Esta unidad cartografica consiste de suelos Panduras y suelos muy pedregosos en un patron que no puede separarse. Los suelos Pandura son alrededor de 30-40 por ciento de la unidad cartografica y los suelos muy pedregosos 40-50 por ciento. El area restante consiste de suelos muy variables para ser clasificados.

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Nontechnical Descriptions
Humacao Area, Puerto Rico Eastern Part

PeC2 - Parcelas Clay, 5 To 12 Percent Slopes, Eroded

THE PARCELAS SERIES CONSISTS OF VERY DEEP, MODERATELY WELL DRAINED SOILS ON FOOTSLOPES, ALLUVIAL FANS AND TERRACES. THEY FORMED IN FINE TEXTURED OVER LOAMY SEDIMENTS. TYPICALLY, THESE SOILS HAVE A DARK BROWN CLAY SURFACE 7 INCHES THICK. THE SUBSOIL FROM 7 TO 44 INCHES IS DARK REDDISH BROWN AND BROWN CLAY. THE SUBSTRATUM FROM 44 TO 60 INCHES IS YELLOWISH BROWN CLAY AND CLAY LOAM.

Parcelas arcilloso, 5-12 por ciento de inclinacion, erodado. Suelos profundos, moderadamente bien drenados, de fuerte a extremadamente acido, textura fina, capacidad de retencion de agua alta y potencial de expansion alto. La escorrentia es mediana. Son dificiles de trabajar y susceptibles a erosion.

PlB - Paso Seco Clay, 0 To 5 Percent Slopes

THE PASO SECO SERIES CONSISTS OF VERY DEEP, MODERATELY WELL DRAINED SOILS ON ALLUVIAL FANS AND TERRACES. THEY FORMED IN CLAYEY SEDIMENTS OF MIXED ORIGIN OVERLAYING LOAMY SEDIMENTS WITH GRAVEL. TYPICALLY, THESE SOILS HAVE A VERY DARK GRAYISH BROWN CLAY SURFACE LAYER 6 INCHES THICK. THE SUBSURFACE LAYER FROM 6 TO 28 INCHES IS DARK YELLOWISH BROWN. THE LAYER FROM 28 TO 32 INCHES IS DARK BROWN GRAVELLY CLAY. THE SUBSTRATUM FROM 32 INCHES TO 60 INCHES IS DARK BROWN GRAVELLY LOAM.

Paso Seco arcilloso, 0-5 por ciento de inclinacion. Suelos profundos, moderadamente bien drenado, de neutral a suavemente alcalino, textura fina, permeabilidad lenta, capacidad de retencion de agua alta y potencial de expansion alto. Son dificiles de trabajar.

U.S. DEPARTMENT OF AGRICULTURE
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Nontechnical Descriptions
Humacao Area, Puerto Rico Eastern Part

PmD2 - Patillas Clay Loam, 12 To 20 Percent Slopes, Eroded

THE PATILLAS SERIES CONSISTS OF VERY DEEP, WELL DRAINED SOILS ON UPLANDS. THEY FORMED IN LOAMY MATERIALS DERIVED FROM PLUTONIC ROCK. TYPICALLY, THEY HAVE A DARK BROWN CLAY LOAM SURFACE LAYER, 8 INCHES THICK. THE SUBSOIL FROM 8 TO 19 INCHES IS REDDISH BROWN CLAY LOAM. THE SUBSTRATUM FROM 19 INCHES TO 60 INCHES IS YELLOWISH RED, SANDY LOAM SAPROLITE.

Patillas arcilloso lomico, 12-20 por ciento de inclinacion, erodado. Suelos profundos, bien drenados, de fuerte a muy fuertemente acidos, permeabilidad moderada, capacidad de retencion de agua moderada. La escorrentia es de mediana a rapida y los suelos son susceptibles a erosion.

PmE2 - Patillas Clay Loam, 20 To 40 Percent Slopes, Eroded

THE PATILLAS SERIES CONSISTS OF VERY DEEP, WELL DRAINED SOILS ON UPLANDS. THEY FORMED IN LOAMY MATERIALS DERIVED FROM PLUTONIC ROCK. TYPICALLY, THEY HAVE A DARK BROWN CLAY LOAM SURFACE LAYER, 8 INCHES THICK. THE SUBSOIL FROM 8 TO 19 INCHES IS REDDISH BROWN CLAY LOAM. THE SUBSTRATUM FROM 19 INCHES TO 60 INCHES IS YELLOWISH RED, SANDY LOAM SAPROLITE.

Patillas arcilloso lomico, 20-40 por ciento de inclinacion, erodado. Suelos profundos, bien drenados, de fuerte a muy fuertemente acidos, permeabilidad moderada, capacidad de retencion de agua moderada. La escorrentia es de mediana a rapida y los suelos son susceptibles a erosion.

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Nontechnical Descriptions
Humacao Area, Puerto Rico Eastern Part

Pn - Pinones Silty Clay

THE PINONES SERIES CONSISTS OF VERY DEEP, POORLY DRAINED SOILS ON COASTAL LOWLANDS. THEY FORMED IN FINE TEXTURED SEDIMENTS OVER ORGANIC MATERIALS. TYPICALLY, THESE SOILS HAVE A VERY DARK GRAYISH BROWN SILTY CLAY SURFACE LAYER, 4 INCHES THICK. THE SUBSOIL FROM 4 INCHES TO 18 INCHES IS DARK GRAY SILTY CLAY. THE UNDERLYING LAYER FROM 18 INCHES TO 60 INCHES IS MUCK. SLOPES RANGE FROM 0 TO 2 PERCENT.

Pinones limo arcilloso. Suelos profundos, mal drenados, muy fuertemente acidos, textura fina, permeabilidad lenta, capacidad de retencion de agua alta, fertiles y potencial de expansion alto. Son dificiles de trabajar.

Po - Poncena Clay

THE PONCENA SERIES CONSISTS OF DEEP, MODERATELY WELL DRAINED SOILS ON STREAM TERRACES. THEY FORMED IN CLAYEY SEDIMENTS WEATHERED FROM VOLCANIC ROCKS AND LIMESTONE. TYPICALLY, THESE SOIL HAVE A BLACK CLAY SURFACE LAYER 11 INCHES THICK. THE SUBSURFACE LAYER FROM 11 TO 30 INCHES IS BLACK, VERY DARK GRAYISH BROWN AND DARK BROWN CLAY. THE UPPER SUBSTRATUM FROM 30 TO 38 INCHES IS GRAYISH BROWN CLAY. BELOW 38 INCHES IS WEATHERED VOLCANIC ROCK AND CALCAREOUS EARTH.

Poncena arcilloso. Suelos profundos, moderadamente bien drenados, calizos, textura fina, permeabilidad lenta, capacidad de retencion de agua alta y potencial de expansion alto. La escorrentia es mediana, los suelos fertiles y dificiles de trabajar.

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

Nontechnical Descriptions
Humacao Area, Puerto Rico Eastern Part

PrC2 - Pozo Blanco Clay Loam, 5 To 12 Percent Slopes, Eroded

THE POZO BLANCO SERIES CONSISTS OF VERY DEEP, WELL DRAINED SOILS ON FOOTSLOPES, ALLUVIAL FANS AND LOW HILLS. THEY FORMED IN SEDIMENTS WEATHERED FROM LIMESTONE AND CALCAREOUS VOLCANIC ROCKS. TYPICALLY, THESE SOILS HAVE A VERY DARK GRAYISH BROWN, CLAY LOAM SURFACE LAYER 6 INCHES THICK. THE UPPER SUBSOIL IS DARK GRAYISH BROWN, CLAY LOAM. LOWER SUBSOIL IS BROWN, SILTY CLAY LOAM. SUBSTRATUM TO 60 INCHES IS LIGHT GRAY SOFT LIMESTONE THAT TEXTURES TO LOAM.

Pozo Blanco arcilloso lomico, 5-12 por ciento de inclinacion, erodado. Suelos profundos, bien drenados, textura mediana a moderadamente fina, de suave a muy fuertemente alcalino, permeabilidad moderada y capacidad de retencion de agua moderada. Son medianamente fertiles y el potencial de expansion moderado.

Re - Reilly Soils

THE REILLY SERIES CONSISTS OF VERY DEEP, EXCESSIVELY DRAINED SOILS ON FLOODPLAINS. THEY FORMED IN STRATIFIED ALLUVIAL SEDIMENTS. TYPICALLY THESE SOILS HAVE A DARK BROWN GRAVELLY LOAM SURFACE LAYER 9 INCHES THICK. THE UNDERLYING MATERIAL FROM 9 TO 16 INCHES IS DARK GRAYISH BROWN VERY GRAVELLY SAND AND FROM 16 TO 48 INCHES IS COARSE SAND AND GRAVEL. SLOPES RANGE FROM 0 TO 2 PERCENT.

Reilly. Suelos pocos profundos, excesivamente drenados, de ligera a medianamente acido, textura mediana y moderadamente gruesa, permeabilidad rapida, capacidad de retencion de agua baja, fertilidad baja y facil de trabajar.

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

Nontechnical Descriptions
Humacao Area, Puerto Rico Eastern Part

Rp - Reparada Clay

THE REPARADA SERIES CONSISTS OF VERY DEEP, POORLY DRAINED SOILS ON COASTAL LOWLANDS. THEY FORMED IN CLAYEY SEDIMENTS OVER DECOMPOSED ORGANIC MATERIALS. TYPICALLY, THESE SOILS HAVE A VERY DARK BROWN, CLAY SURFACE LAYER, 8 INCHES THICK. THE SUBSOIL FROM 8 TO 18 INCHES IS VERY DARK GRAY CLAY. THE UNDERLYING LAYER FROM 18 TO 60 INCHES IS DECOMPOSED ORGANIC MATERIAL. SLOPES RANGE FROM 0 TO 2 PERCENT.

Reparada arcilloso. Suelo muy poco profundo, mal drenado, suavemente alcalino, textura fina, permeabilidad muy lenta, capacidad de retencion de agua alta, fertilidad alta y potencial de expansion alto. Son dificiles de trabajar.

RrB - Rio Arriba Clay, 2 To 5 Percent Slopes

THE RIO ARRIBA SERIES CONSISTS OF VERY DEEP, MODERATELY WELL DRAINED SOILS IN ALLUVIAL FANS AND TERRACES. THEY FORMED IN CLAYEY SEDIMENTS OF MIXED ORIGIN. TYPICALLY THESE SOILS HAVE A BROWN, CLAY SURFACE LAYER 8 INCHES THICK. THE UPPER SUBSOIL IS YELLOWISH BROWN CLAY. THE LOWER SUBSOIL IS YELLOWISH BROWN CLAY. THE SUBSTRATUM TO 60 INCHES IS REDDISH YELLOW CLAY.

Rio Arriba arcilloso, 2-5 por ciento de inclinacion. Suelos profundos, moderadamente bien drenados, de fuerte a muy fuertemente acido, textura fina, permeabilidad moderadamente lenta, capacidad de retencion de agua alta y potencial expansivo alto. La escorrentia es de lenta a mediana y son dificiles de trabajar.

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NATURAL RESOURCES CONSERVATION SERVICE

Nontechnical Descriptions
Humacao Area, Puerto Rico Eastern Part

RrC2 - Rio Arriba Clay, 5 To 12 Percent Slopes, Eroded

THE RIO ARRIBA SERIES CONSISTS OF VERY DEEP, MODERATELY WELL DRAINED SOILS IN ALLUVIAL FANS AND TERRACES. THEY FORMED IN CLAYEY SEDIMENTS OF MIXED ORIGIN. TYPICALLY THESE SOILS HAVE A BROWN, CLAY SURFACE LAYER 8 INCHES THICK. THE UPPER SUBSOIL IS YELLOWISH BROWN CLAY. THE LOWER SUBSOIL IS YELLOWISH BROWN CLAY. THE SUBSTRATUM TO 60 INCHES IS REDDISH YELLOW CLAY.

Rio Arriba arcilloso, 5-12 por ciento de inclinacion, erodado. Suelos profundos, moderadamente bien drenados, de fuerte a muy fuertemente acido, textura fina, permeabilidad moderadamente lenta, capacidad de retencion de agua alta y potencial expansivo alto. La escorrentia es de lenta a mediana y son dificiles de trabajar.

Rs - Rock Land

ROCK OUTCROP CONSISTS OF EXPOSURES OF BARE, HARD BEDROCK.

Terreno Rocos. Consiste de areas donde el 50 a 70 por ciento de la superficie consiste de estrato rocoso. Son comunes las piedras sueltas en la superficie. Hay suelo poco profundo entre las cosechas y las piedras. La inclinacion varia entre 60 y 70 por ciento. La vegetacion es malezas.

Ru - Rough Stony Land

STONY LAND CONSISTS OF AREAS OF STONES AND BOULDERS.

Terreno Pedregoso. Consiste de picos de montanas altas y laderas largas e inclinadas, en el bosque lluvioso. Las rocas y penascos cubren de 75 a 90 por ciento de la superficie. Son areas innaccesibles por lo que los suelos no han sido clasificados. Las observaciones indican que los suelos son arcillosos y mal drenados en las laderas menos inclinadas y algo mal drenados en las areas muy riscosas. La lluvia casi continua, es favorable para los helechos y musgos.

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

Nontechnical Descriptions
Humacao Area, Puerto Rico Eastern Part

SaE2 - Sabana Silty Clay Loam, 20 To 40 Percent Slopes, Eroded

THE SABANA SERIES CONSISTS OF SHALLOW, WELL DRAINED SOILS ON UPLANDS. THEY FORMED IN MATERIAL WEATHERED FROM VOLCANIC ROCKS. TYPICALLY THESE SOILS HAVE A VERY DARK GRAY SILTY CLAY LOAM SURFACE LAYER 4 INCHES THICK. THE SUBSOIL FROM 4 TO 12 INCHES IS DARK GRAYISH BROWN SILTY CLAY AND FROM 12 TO 18 INCHES IS YELLOWISH RED CLAY. CONSOLIDATED VOLCANIC ROCK IS AT 18 INCHES.

Sabana limo arcilloso lomico, 20-40 por ciento de inclinacion, erodado. Suelos muy poco profundos, bien drenados, fuertemente acidos, textura fina, permeabilidad moderada, capacidad de retencion de agua moderada y potencial de expansion moderado. La escorrentia es rapida.

SaF2 - Sabana Silty Clay Loam, 40 To 60 Percent Slopes, Eroded

THE SABANA SERIES CONSISTS OF SHALLOW, WELL DRAINED SOILS ON UPLANDS. THEY FORMED IN MATERIAL WEATHERED FROM VOLCANIC ROCKS. TYPICALLY THESE SOILS HAVE A VERY DARK GRAY SILTY CLAY LOAM SURFACE LAYER 4 INCHES THICK. THE SUBSOIL FROM 4 TO 12 INCHES IS DARK GRAYISH BROWN SILTY CLAY AND FROM 12 TO 18 INCHES IS YELLOWISH RED CLAY. CONSOLIDATED VOLCANIC ROCK IS AT 18 INCHES.

Sabana limo arcilloso lomico, 40-60 por ciento de inclinacion, erodado. Suelos muy poco profundos, bien drenados, fuertemente acidos, textura fina, permeabilidad moderada, capacidad de retencion de agua moderada y potencial de expansion moderado. La escorrentia es muy rapida.

U.S. DEPARTMENT OF AGRICULTURE
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Nontechnical Descriptions
Humacao Area, Puerto Rico Eastern Part

Sm - Salt Water Marsh

HYDRAQUENTS CONSIST OF VERY DEEP, VERY POORLY DRAINED SOILS IN DEPRESSATIONAL AREAS. THEY ARE FLOODED BY BOTH SEA WATER AND FRESH WATER FROM STREAMS. SLOPES ARE 0 TO 2 PERCENT.

Pantanos de agua salada. Consisten de areas humedas, inundadas periodicamente; cubiertas principalmente por yerbas, eneas, malezas y otras plantas herbaceos. Es inundado ocasionalmente por aguas saladas de manglares adyacentes. En los periodos en que la lluvia es intensa, los rios y riachuelos drenan en los pantanos de agua salada causando fluctuaciones en el nivel freatico. El material de suelo varia en textura grandemente.

Ta - Talante Soils

THE TALANTE SERIES CONSISTS OF VERY DEEP, POORLY DRAINED SOILS IN FLOOD PLAINS. THEY FORMED IN COARSE TEXTURED SEDIMENTS. THESE SOILS HAVE A DARK BROWN CLAY LOAM SURFACE LAYER. THE SUBSURFACE LAYER IS GRAYISH BROWN SANDY CLAY LOAM. THE SUBSOIL IS BROWN LOAM. THE UPPER SUBSTRATUM IS BROWN AND GRAY LOAMY SAND. THE LOWER SUBSTRATUM TO 58 INCHES IS GRAY COARSE SAND. SLOPES RANGE FROM 0 TO 2 PERCENT.

Talante. Consiste de suelos profundos, mal drenados, de fuerte a muy fuertemente acidos, de textura media a gruesa, permeabilidad moderada, capacidad de retencion de agua moderada y potencial de expansion bajo. Estan sujetos a inundaciones y son dificiles de trabajar. La escorrentia es lenta.

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Nontechnical Descriptions
Humacao Area, Puerto Rico Eastern Part

TeE - Teja Gravelly Sandy Loam, 12 To 40 Percent Slopes

THE TEJA SERIES CONSISTS OF SHALLOW, WELL DRAINED SOILS IN SIDESLOPES AND HILLTOPS. THEY FORMED IN GRAVELLY MATERIALS WEATHERED FROM QUARTZ DIORITE OR GRANODIORITE. TYPICALLY THESE SOILS HAVE A DARK BROWN GRAVELLY SANDY LOAM SURFACE LAYER 6 INCHES THICK. THE SUBSTRATUM TO 14 INCHES IS BROWN AND YELLOWISH BROWN, GRAVELLY SANDY LOAM.

Teja gravoso arenoso lomico, 12-40 por ciento de inclinacion. Suelos poco profundos, bien drenados, muy fuertemente acidos, textura gruesa, permeabilidad rapida, capacidad de retencion de agua lenta y dificil de trabajar. La escorrentia es de mediana a rapida.

Tf - Tidal Flats

HYDRAQUENTS, FREQUENTLY FLOODED ARE VERY DEEP, VERY POORLY DRAINED SOILS ADJACENT TO THE COAST. THEY ARE FREQUENTLY FLOODED BY SEAWATER AND ARE STRONGLY SALINE. SLOPES ARE 0 TO 2 PERCENT.

Mareas Llanas (Tidal flats). Consisten de areas bajas, levemente sobre el nivel del mar, afectadas por el agua de mar durante las mareas altas. Debido a las concentraciones altas de sal, solo crecen en estas areas las plantas tolerantes a la sal. Son comunes los parchos sin vegetacion donde existe una visible acumulacion de sal. Este material de suelo varia en textura grandemente.

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Nontechnical Descriptions
Humacao Area, Puerto Rico Eastern Part

Ts - Tidal Swamp

HYDRAQUENTS CONSIST OF VERY DEEP, VERY POORLY DRAINED SOILS ALONG THE COAST. THEY ARE FLOODED MOST OF THE YEAR. SLOPES RANGE FROM 0 TO 2 PERCENT.

Pantanos de Marea (Tidal swamp). Consiste de areas cubiertas de un crecimiento espeso de arboles de mangle y que estan bajo aguas saladas la mayor parte del ano. Estas areas estan a lo largo de las entradas y costas maritimas. Los suelos arenosos o arcillosos son de colores claros, salinos y contienen materia organica provenientes de la descomposicion de los arboles.

Tt - Toa Silty Clay Loam

THE TOA SERIES CONSISTS OF VERY DEEP, WELL DRAINED SOILS ON FLOODPLAINS. THEY FORMED IN ALLUVIAL SEDIMENTS OF MIXED ORIGIN. TYPICALLY THESE SOILS HAVE A DARK BROWN CLAY LOAM SURFACE LAYER 8 INCHES THICK. A SUBSURFACE LAYER FROM 8 TO 17 INCHES IS DARK BROWN SILTY CLAY LOAM. THE SUBSOIL FROM 17 TO 29 INCHES IS DARK YELLOWISH BROWN SILTY CLAY LOAM. THE SUBSTRATUM FROM 29 TO 43 INCHES IS DARK BROWN SILTY CLAY LOAM AND FROM 43 TO 64 INCHES IS DARK YELLOWISH BROWN CLAY LOAM. SLOPES RANGE FROM 0 TO 2 PERCENT.

Toa limo arcilloso lomico. Suelo profundo, moderadamente bien drenado, medianamente acido, textura moderadamente fina y se encuentra en los llanos de aluvion. La permeabilidad es moderada y la capacidad de retencion de humedad es alta. La escorrentia es lenta y su fertilidad es alta.

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Nontechnical Descriptions
Humacao Area, Puerto Rico Eastern Part

UpF - Utuado-Picacho-Stony Rockland Association, Very Steep

ROCK OUTCROP CONSISTS OF EXPOSURES OF BARE, HARD BEDROCK. THE PICACHO SERIES CONSISTS OF VERY DEEP, MODERATELY WELL DRAINED SOILS ON UPLANDS. THEY FORMED IN CLAYEY MATERIALS DERIVED FROM VOLCANIC ROCKS. TYPICALLY, THESE SOILS HAVE A DARK YELLOWISH BROWN SILTY CLAY LOAM SURFACE LAYER, 9 INCHES THICK. THE SUBSOIL FROM 9 INCHES TO 35 INCHES HAS LAYERS OF YELLOWISH BROWN, STRONG BROWN AND REDDISH YELLOW CLAY. THE SUBSTRATUM FROM 35 INCHES TO 65 INCHES IS YELLOWISH RED CLAY LOAM AND SILTY CLAY LOAM. IT IS UNDERLAIN BY LOAM SAPROLITE. THE UTUADO SERIES CONSISTS OF VERY DEEP, WELL DRAINED SOILS IN SIDESLOPES. THEY FORMED IN LOAMY MATERIALS WEATHERED FROM PLUTONIC ROCK. THESE SOILS HAVE DARK BROWN, CLAY LOAM SURFACE LAYER. THE UPPER SUBSOIL IS YELLOWISH BROWN, CLAY LOAM. THE LOWER SUBSOIL IS YELLOWISH BROWN LOAM. THE SUBSTRATUM TO 72 INCHES IS PALE BROWN OR VERY PALE BROWN SANDY LOAM.

Asociacion Utuado-Picacho-estrato pedregoso rocoso, muy riscosos. Esta unidad cartografica esta en las montanas del bosque lluvioso. La composicion de esta unidad es mas variable que las otras, pero ha sido controlada lo suficientemente bien como para hacer interpretaciones sobre los usos de estos suelos. Alrededor de 40 por ciento de la unidad esta compuesta por suelos Utuados, 26 por ciento por suelos Picacho y 19 por ciento de terreno pedregoso rocoso. Los suelos de esta unidad ocurren en patrones uniformes; los suelos Picacho estan en las laderas superiores y los Utuado en las laderas centrales. El terreno pedregoso rocoso esta en la parte inferior de las laderas, adyacentes a los drenajes naturales. Alrededor de un 90-100 por ciento de la superficie esta cubierta por roca volcanica de color grisaceo y azuloso. En la base de los acantilados rocosos hay fragmentos sueltos que fluctuan entre 6 a 60 pulgadas en diametro.

Ur - Urban, Built-Up, Water Areas, Miscellaneous, Etc.

URBAN LAND IS MOSTLY COVERED BY STREETS, PARKING LOTS, BUILDINGS AND OTHER STRUCTURES OF URBAN AREAS.

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Nontechnical Descriptions
Humacao Area, Puerto Rico Eastern Part

Va - Vayas Silty Clay Loam, Occasionally Flooded

THE VAYAS SERIES CONSISTS OF VERY DEEP, POORLY DRAINED SOILS ON FLOOD PLAINS. THEY FORMED IN CLAYEY SEDIMENTS OF MIXED ORIGIN. THESE SOILS HAVE A VERY DARK GRAYISH BROWN SILTY CLAY SURFACE LAYER. THE UPPER SUBSOIL IS VERY DARK GRAYISH BROWN CLAY. THE LOWER SUBSOIL IS VERY DARK GRAY, DARK GRAYISH BROWN AND YELLOWISH BROWN CLAY. SLOPE RANGES FROM 0 TO 2 PERCENT.

Vayas limo arcilloso lomico, inundado ocasionalmente. Suelos profundos, mal drenados, de neutrales a suavemente alcalinos, textura fina, permeabilidad lenta, capacidad de retencion de agua alta, llanos o casi llanos y fertilidad natural alta. Son dificiles de trabajar.

Vc - Vayas Silty Clay, Frequently Flooded

THE VAYAS SERIES CONSISTS OF VERY DEEP, POORLY DRAINED SOILS ON FLOOD PLAINS. THEY FORMED IN CLAYEY SEDIMENTS OF MIXED ORIGIN. THESE SOILS HAVE A VERY DARK GRAYISH BROWN SILTY CLAY SURFACE LAYER. THE UPPER SUBSOIL IS VERY DARK GRAYISH BROWN CLAY. THE LOWER SUBSOIL IS VERY DARK GRAY, DARK GRAYISH BROWN AND YELLOWISH BROWN CLAY. SLOPE RANGES FROM 0 TO 2 PERCENT.

Vayas limo arcilloso, inundado frecuentemente. Suelos profundos, mal drenados, de neutrales a suavemente alcalinos, textura fina, permeabilidad lenta, capacidad de retencion de agua alta, llanos o casi llanos y fertilidad natural alta. Son dificiles de trabajar.

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Nontechnical Descriptions
Humacao Area, Puerto Rico Eastern Part

VeB - Vega Alta Silty Clay Loam, 2 To 5 Percent Slopes

THE VEGA ALTA SERIES CONSISTS OF VERY DEEP, WELL DRAINED SOILS IN COASTAL PLAINS. THEY FORMED IN CLAYEY SEDIMENTS. TYPICALLY THESE SOILS HAVE A DARK YELLOWISH BROWN, CLAY LOAM SURFACE LAYER 8 INCHES THICK. THE UPPER SUBSOIL TO 36 INCHES IS RED, BROWN, AND YELLOW CLAY. THE LOWER SUBSOIL TO 84 INCHES IS DARK RED, BROWN AND LIGHT GRAY CLAY.

Vega Alta limo arcilloso lomico, 2-5 por ciento de inclinacion. Suelos profundos, bien drenados, textura fina, de fuerte a muy fuertemente acidos, permeabilidad moderada, capacidad de retencion de agua moderada, ligeramente inclinados y fertilidad mediana. Son algo dificil de trabajar. La escorrentia es de lenta a mediana.

VeC - Vega Alta Silty Clay Loam, 5 To 12 Percent Slopes

THE VEGA ALTA SERIES CONSISTS OF VERY DEEP, WELL DRAINED SOILS IN COASTAL PLAINS. THEY FORMED IN CLAYEY SEDIMENTS. TYPICALLY THESE SOILS HAVE A DARK YELLOWISH BROWN, CLAY LOAM SURFACE LAYER 8 INCHES THICK. THE UPPER SUBSOIL TO 36 INCHES IS RED, BROWN, AND YELLOW CLAY. THE LOWER SUBSOIL TO 84 INCHES IS DARK RED, BROWN AND LIGHT GRAY CLAY.

Vega Alta limo arcilloso lomico, 5-12 por ciento de inclinacion. Suelos profundos, bien drenados, textura fina, de fuerte a muy fuertemente acidos, permeabilidad moderada, capacidad de retencion de agua moderada, inclinados y fertilidad mediana. Son algo dificil de trabajar. La escorrentia es de lenta a mediana.

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Nontechnical Descriptions
Humacao Area, Puerto Rico Eastern Part

VgA - Vega Baja Silty Clay Loam, 0 To 3 Percent Slopes

THE VEGA BAJA SERIES CONSISTS OF VERY DEEP, SOMEWHAT POORLY DRAINED SOILS ON COASTAL PLAINS AND ALLUVIAL FANS. THEY FORMED IN CLAYEY SEDIMENTS. TYPICALLY THESE SOILS HAVE A DARK BROWN SILTY CLAY SURFACE LAYER 7 INCHES THICK. THE SUBSURFACE FROM 7 TO 17 INCHES IS DARK GRAYISH BROWN AND YELLOWISH BROWN SILTY CLAY. THE SUBSOIL FROM 17 TO 32 INCHES IS STRONG BROWN AND GRAY CLAY. FROM 32 TO 50 INCHES IS BROWNISH YELLOW AND LIGHT GRAY SILTY CLAY LOAM. THE SUBSTRATUM FROM 50 TO 60 INCHES IS LIGHT GRAY SILTY CLAY. SLOPES RANGE FROM 0 TO 5 PERCENT.

Vega Baja limo arcilloso lomico, 0-3 por ciento de inclinacion. Suelos profundos, algo mal drenados, de ligera a medianamente acidos, permeabilidad lenta, de textura fina y mezclada, capacidad de retencion de agua alta, de llanos a ligeramente inclinados. La fertilidad es mediana y la escorrentia es lenta. Estos suelos son dificiles de trabajar.

VlC - Via Silty Clay Loam, 3 To 10 Percent Slopes

THE VIA SERIES CONSISTS OF VERY DEEP, WELL DRAINED SOILS ON TERRACES. THEY FORMED IN MODERATELY FINE TEXTURED SEDIMENTS. TYPICALLY THESE SOILS HAVE A DARK GRAYISH BROWN SILTY CLAY LOAM SURFACE LAYER 8 INCHES THICK. THE SUBSOIL FROM 8 TO 23 INCHES IS REDDISH BROWN CLAY LOAM AND FROM 23 TO 47 INCHES IS YELLOWISH RED CLAY LOAM. THE SUBSTRATUM FROM 47 TO 62 INCHES IS DARK BROWN VERY GRAVELLY CLAY LOAM.

Via limo arcilloso lomico, 3-10 por ciento de inclinacion. Suelos profundos, bien drenados, de ligera a fuertemente acidos, permeabilidad moderada, textura fina, capacidad de retencion de agua moderada y fertilidad alta.

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Nontechnical Descriptions
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VmC - Vieques Loam, 5 To 12 Percent Slopes

THE VIEQUES SERIES CONSISTS OF DEEP, WELL DRAINED SOILS ON UPLANDS. THEY FORMED IN LOAMY MATERIAL WEATHERED FROM PLUTONIC ROCK. TYPICALLY, THESE SOILS HAVE A DARK BROWN CLAY LOAM SURFACE LAYER 5 INCHES THICK. THE SUBSOIL FROM 5 TO 15 INCHES IS BROWN SANDY CLAY LOAM. THE SUBSTRATUM FROM 15 TO 38 INCHES IS YELLOWISH BROWN VERY GRAVELLY SAND. CONSOLIDATED PLUTONIC ROCK IS AT 38 INCHES.

vieques lomico, 5-12 por ciento de inclinacion. Suelos moderadamente profundos, bien drenados, neutral a ligeramente acidos, textura mediana, permeabilidad moderadamente rapida, capacidad de retencion de agua baja, inclinados, susceptibles a erosion y fertilidad mediana.

VmE2 - Vieques Loam, 12 To 40 Percent Slopes, Eroded

THE VIEQUES SERIES CONSISTS OF DEEP, WELL DRAINED SOILS ON UPLANDS. THEY FORMED IN LOAMY MATERIAL WEATHERED FROM PLUTONIC ROCK. TYPICALLY, THESE SOILS HAVE A DARK BROWN CLAY LOAM SURFACE LAYER 5 INCHES THICK. THE SUBSOIL FROM 5 TO 15 INCHES IS BROWN SANDY CLAY LOAM. THE SUBSTRATUM FROM 15 TO 38 INCHES IS YELLOWISH BROWN VERY GRAVELLY SAND. CONSOLIDATED PLUTONIC ROCK IS AT 38 INCHES.

vieques lomico, 12-40 por ciento de inclinacion. Suelos moderadamente profundos, bien drenados, neutral a ligeramente acidos, textura mediana, permeabilidad moderadamente rapida, capacidad de retencion de agua baja, inclinados, susceptibles a erosion y fertilidad mediana.

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Nontechnical Descriptions
Humacao Area, Puerto Rico Eastern Part

Vs - Vives Silty Clay Loam, High Bottom

THE VIVES SERIES CONSISTS OF VERY DEEP, MODERATELY WELL DRAINED SOILS ON FANS AND TERRACES. THEY FORMED IN LOAMY SEDIMENTS OF MIXED ORIGIN. TYPICALLY, THESE SOILS HAVE A VERY DARK GRAYISH BROWN CLAY SURFACE LAYER, 9 INCHES THICK. THE SUBSOIL FROM 9 TO 23 INCHES IS YELLOWISH RED CLAY LOAM. THE SUBSOIL FROM 23 TO 32 INCHES IS REDDISH BROWN CLAY LOAM. THE SUBSTRATUM FROM 32 INCHES TO 50 INCHES IS BROWN CLAY LOAM.

Vives limo arcilloso lomico. Suelos profundos, bien drenados, de neutrales a moderadamente alcalinos, textura fina, permeabilidad moderada, capacidad de retencion de agua alta y fertiles. Son faciles de trabajar.

VvA - Vives Clay, 0 To 2 Percent Slopes

THE VIVES SERIES CONSISTS OF VERY DEEP, MODERATELY WELL DRAINED SOILS ON FANS AND TERRACES. THEY FORMED IN LOAMY SEDIMENTS OF MIXED ORIGIN. TYPICALLY, THESE SOILS HAVE A VERY DARK GRAYISH BROWN CLAY SURFACE LAYER, 9 INCHES THICK. THE SUBSOIL FROM 9 TO 23 INCHES IS YELLOWISH RED CLAY LOAM. THE SUBSOIL FROM 23 TO 32 INCHES IS REDDISH BROWN CLAY LOAM. THE SUBSTRATUM FROM 32 INCHES TO 50 INCHES IS BROWN CLAY LOAM.

Vives arcilloso, 0-2 por ciento de inclinacion. Suelos profundos, bien drenados, de neutrales a moderadamente alcalinos, textura fina, permeabilidad moderada, capacidad de retencion de agua alta, llanos o casi llanos y fertiles. Son faciles de trabajar.

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Nontechnical Descriptions
Humacao Area, Puerto Rico Eastern Part

VvB - Vives Clay, 2 To 7 Percent Slopes

THE VIVES SERIES CONSISTS OF VERY DEEP, MODERATELY WELL DRAINED SOILS ON FANS AND TERRACES. THEY FORMED IN LOAMY SEDIMENTS OF MIXED ORIGIN. TYPICALLY, THESE SOILS HAVE A VERY DARK GRAYISH BROWN CLAY SURFACE LAYER, 9 INCHES THICK. THE SUBSOIL FROM 9 TO 23 INCHES IS YELLOWISH RED CLAY LOAM. THE SUBSOIL FROM 23 TO 32 INCHES IS REDDISH BROWN CLAY LOAM. THE SUBSTRATUM FROM 32 INCHES TO 50 INCHES IS BROWN CLAY LOAM.

vives arcilloso, 2-7 por ciento de inclinacion. Suelos profundos, bien drenados, de neutrales a moderadamente alcalinos, textura fina, permeabilidad moderada, capacidad de retencion de agua alta, ligeramente inclinados y fertiles.

Vw - Vivi Loam

THE VIVI SERIES CONSISTS OF VERY DEEP, EXCESSIVELY DRAINED SOILS ON FLOODPLAINS. THEY FORMED IN SEDIMENTS DERIVED FROM VOLCANIC ROCK. TYPICALLY THESE SOILS HAVE A VERY DARK GRAYISH BROWN LOAM SURFACE LAYER 7 INCHES THICK. THE SUBSOIL FROM 7 TO 14 INCHES IS DARK GRAYISH BROWN LOAM. THE SUBSTRATUM FROM 14 TO 20 INCHES IS DARK BROWN VERY FINE SANDY LOAM, FROM 20 TO 30 INCHES IS VERY DARK GRAYISH BROWN LOAM, FROM 30 TO 36 INCHES IS DARK GRAYISH BROWN SAND AND FROM 36 TO 60 INCHES IS DARK GRAYISH BROWN SANDY LOAM. SLOPES RANGE FROM 0 TO 2 PERCENT.

Vivi lomico. Suelos profundos, bien drenados, permeabilidad rapida, de fuerte a muy fuertemente acidos, textura moderadamente gruesa y mediana, capacidad de retencion de agua moderada y facil de trabajar. La escorrentia es lenta.

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Nontechnical Descriptions
Humacao Area, Puerto Rico Eastern Part

Wa - Wet Alluvial Land

HYDRAQUENTS ARE VERY DEEP, VERY POORLY DRAINED SOILS IN LAGOON-LIKE AREAS AND DEPRESSIONS ON FLOOD PLAINS. SLOPES RANGE FROM 0 TO 2 PERCENT.

Terrenos aluviales húmedos (Wet alluvial land). Consisten de depresiones y áreas similares a lagunas en las vegas inundables de los ríos y quebradas. El nivel freático está cerca o en la superficie la mayor parte del año. Durante períodos lluviosos las áreas están cubiertas de agua. La textura varía de lomica a arcillosa.

YuF2 - Yunes Silty Clay Loam, 20 To 60 Percent Slopes, Eroded

THE YUNES SERIES CONSISTS OF SHALLOW, WELL DRAINED SOILS ON UPLANDS. THEY FORMED IN MATERIAL WEATHERED FROM SHALE. TYPICALLY THESE SOILS HAVE A DARK REDDISH BROWN SILTY CLAY LOAM SURFACE LAYER 2 INCHES THICK. THE SUBSOIL FROM 2 TO 11 INCHES IS DARK BROWN VERY CHANNERY SILTY CLAY LOAM AND FROM 11 TO 16 INCHES IS BROWN VERY CHANNERY SILTY CLAY LOAM. FRAGMENTAL SHALE IS AT 16 INCHES.

Yunes limo arcilloso lomico, 20-60 por ciento de inclinación, erosionado. Suelos poco profundos, bien drenados, fuertemente acidos, textura moderada, permeabilidad moderada, capacidad de retención de agua baja, riscosos a muy riscosos, susceptibles a erosión y difíciles de trabajar.